AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	1. CONTRACTID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. 5.	PROJECT NO. (If applicable)
P00031	See Block 16C		
6. ISSUED BY CODE	893042	7. ADMINISTERED BY (If other than Item 6) CC	DDE 00701
EM-Idaho Department of Energy Office of Environmental Mana Idaho Cleanup Project 1955 Fremont Avenue Idaho Falls ID 83415	agement	U.S. Department of Energy Idaho Operations Office 1955 Fremont Avenue Idaho Falls ID 83415	
8. NAME AND ADDRESS OF CONTRACTOR (No., stree.	is assume. Otata and ZID Code.	DA AMENDMENT OF SOLICITATION NO	
IDAHO ENVIRONMENTAL COALITIO Attn: John H. MacRae, Jr.		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11)	
1580 Sawtelle Street Idaho Falls ID 83402		x 10A. MODIFICATION OF CONTRACT/ORDER NO. 89303321DEM000061 89304223FEM400000 10B. DATED (SEE ITEM 13)	
CODE LQ5ZLNE3EM27	FACILITY CODE	09/08/2023	
	11. THIS ITEM ONLY APPLIE	S TO AMENDMENTS OF SOLICITATIONS	
OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes refere 12. ACCOUNTING AND APPROPRIATION DATA (If req	change an offer already submitted nce to the solicitation and this ame uired)	O THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTI , such change may be made by letter or electronic communication endment, and is received prior to the opening hour and date specification. DRDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCR	n, provided ied.
		/) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE	
B. THE ABOVE NUMBERED CONTRA appropriation data, etc.) SET FORTH	CT/ORDER IS MODIFIED TO REF H IN ITEM 14, PURSUANT TO TH	ELECT THE ADMINISTRATIVE CHANGES (such as changes in page of the page). EAUTHORITY OF FAR 43.103(b).	aying office,
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT	TTO AUTHORITY OF:	
X FAR 43.103(a) Bilate	ral		
D. OTHER (Specify type of modification	and authority)		
E. IMPORTANT: Contractor ☐ is not 14. DESCRIPTION OF AMENDMENT/MODIFICATION UEI: LQ5ZLNE3EM27	⊠ is required to sign this docum (Organized by UCF section headin	nent and return1 copies to the issuing off page, including solicitation/contract subject matter where feasible.)	
The purpose of this modifica	tion is to update	e the Risk Registers for Task Ord	er (TO)-3.2,
Integration and Mission Cont	inuity (see below	for details).	
Payment: OR for Idaho U.S. Department of Energy Oak Ridge Financial Service P.O. Box 6017 Oak Ridge TN 37831 Period of Performance: 10/01		031	
Continued			
		A or 10A, as heretofore changed, remains unchanged and in full for 16A. NAME AND TITLE OF CONTRACTING OFFICER	
KINBERU SOUT HWICK pe or print bigit	ally signed by KIMBERLI FHWICK (Affiliate)		Cispo or printy
(Affiliate) Date	2024.06.12 14:03:34 -06'00'	Grace H. Ruiz	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGN	16B. UNITED STATES OF AMERICA signed by GRACE RUIZ Date: 2024.06.12 14:38:55 -06'00'	16C. DATE SIGNED 06/12/2024

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 89303321DEM000061/89304223FEM400000/P00031
 2
 2

NAME OF OFFEROR OR CONTRACTOR

IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE	AMOUNT (F)
(A)	(B)	(0)	(D)	(上)	(E)
	Change Item 00302 to read as follows (amount shown is the total amount):				
	is the cotal amount).				
00302	CLIN 03 SUBTASK 0302 INTEGRATION AND MISSION				682,509,604.00
	CONTINUITY (TASK ORDER 3.2) Line item value is: \$682,509,604.00				
	Incrementally Funded Amount: \$302,772,252.63				
	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 Reg Updates				
	FY24 Q2-Redlined and Incorporated and TO-3.2 Risk				
	Reg Updates FY24 Q2-Redlined and Incorporated).				
	All other terms and conditions remain unchanged.				

From: Southwick, Kimberli S
To: Ruiz, Grace H

Subject: Fwd: *UPDATED* Delegation of Authority — Jack MacRae, Sr Director, Business Services & PCO

Date: Wednesday, June 12, 2024 2:58:55 PM

Attachments: image001.png image001.png

Here you go!

Kim Southwick Cell (208)681-8080

From: Kreimann-Duane, Ashley A < Ashley. Kreimannduane@icp.doe.gov>

Sent: Monday, June 3, 2024 11:35 AM

To: Delegation of Authority < Delegation of Authority@icp.doe.gov>; Salmon, Tony F

<Tony.Salmon@icp.doe.gov>; Southwick, Shawna A <Shawna.Southwick@icp.doe.gov>; Killpack, Jason D <Jason.Killpack@icp.doe.gov>; Anderson, Jade M <Jade.Anderson@icp.doe.gov>; Cooper, Brandy J <Brandy.Cooper@icp.doe.gov>

Cc: Frick, Joan C < Joan.Frick@icp.doe.gov>; Stark, Tracie L < Tracie.Stark@icp.doe.gov>

Subject: *UPDATED* Delegation of Authority — Jack MacRae, Sr Director, Business Services & PCO

Please see the updates in RED.

Ashley Kreimann-Duane | Business Services & Prime Contracts Administrative Assistant | O: 208.533.0615 | M: 208.906.7992 | Ashley Kreimannduane@icp.doe.gov | Idaho Environmental Coalition | 1580 Sawtelle St. Idaho Falls, ID 83402 | www.idahoenvironmental.com |



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From: Kreimann-Duane, Ashley A < Ashley. Kreimannduane@icp.doe.gov>

Sent: Tuesday, May 28, 2024 3:08 PM

To: Delegation of Authority < Delegation of Authority@icp.doe.gov>; Salmon, Tony F

<Tony.Salmon@icp.doe.gov>; Southwick, Shawna A <Shawna.Southwick@icp.doe.gov>; Killpack, Jason D

<Jason.Killpack@icp.doe.gov>; Anderson, Jade M <Jade.Anderson@icp.doe.gov>; Cooper, Brandy J

<Brandy.Cooper@icp.doe.gov>

Cc: Frick, Joan C <Joan.Frick@icp.doe.gov>; Stark, Tracie L <Tracie.Stark@icp.doe.gov> **Subject:** Delegation of Authority — Jack MacRae, Sr Director, Business Services & PCO

Notification of Delegation of Authority

Manager's Name: Jack MacRae, Sr. Director, Business Services & PCO

Phone Numbers: Office No.: 208-533-0010 Cell No.: 208-541-1483

Delegation Starts: Tuesday, May 28, 2024 @ 3:00 p.m. Delegation Ends: Monday, June 17, 2024 @ 6:00 p.m.

Reason for Absence: Personal Leave

For May 28th – June 17th

Acting Manager's Name: Kimberli Southwick, Deputy/CFO

Phone Numbers: Office No.: 208-533-3841 Cell No.: 208-770-1622

Signature Authority: Yes Timecard Approval: Yes Mail Delegation: NA

Please forward this delegation to others who may have a need to know.

Thank you,

Ashley Kreimann-Duane | Business Services & Prime Contracts Administrative Assistant | O: 208.533.0615 | M: 208.906.7992 | Ashley.Kreimannduane@icp.doe.gov | Idaho Environmental Coalition | 1580 Sawtelle St. Idaho Falls, ID 83402 | www.idahoenvironmental.com |



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CID 89303321DEM000061/89304223FEM400000, Mod P00031

CLIN 03, Subtask 302 Task Order 3.2

TO3 Phase 2 Risk Register

Idaho Cleanup Project Programmatic Risk Register
Updated : 5.9.24

Cost Impacts Schedule Impacts (in days)

Opudica : 3.3.24						-						Cost impacts		Scriedule I	impucts (iii days)	•				
n: 1 :-	11/0-	Responsible Organization	nial o	IEC Dick Pack up	Did Davids	Charles Services	Handling	Risk Event Likelihood	Diel: I	p:	n-ac	84	14/	Rost Care	art Likoly		Majatanainn And	Diel-Compating A. V.	Date Identified Last update	Notes
Risk ID CAL015R2	WBS D.3.02.30.06		Risk Owner Kimbro, Valerie	IEC Risk Back-up Risk Title Kimbro, Valerie Calcine: Delay finalizing the CSSF 3116 Basi		Status Risk Typ Realize Threat			Risk Impact Serious	Risk Rati 4-High		\$ 100,0	Worst Case 00 \$ 150,000		ost Likely Worst Case 40 60	Project has realized approximately 20 days of delay in FY 2022	Mitigation Actions N/A	Risk Corrective Actions 12/12/2022	10/9/2023 None	Notes
				Document due to availablity of DOE-EM an NRC to perform their reviews	d EM and NRC resouce availabity to perform their reviews. Finalizing the CSSF 3116 Basis Document is schedued to be completed at the end of Order 3 schedule.	Open										because resoucres from DOE-EM were unavailable (best case). It was assumed that project would realize the same delay from				
					Task Order 3; however, the project has already realized schedule delays because of unavailability of resources to conduct their reviews.											NRC (most likely case) and an additional 20-day delay for unforseen circumstances as the worst case. Best Case - 20 days				
CAL017R2	D.3.02.30.06	IEC	Kimbro, Valerie	Kimbro, Valerie Calcine: Equipment failure at the full-scale	Equipment failure at the full-scale mockup during the 8-month erosion Single-point failure of equipment on the full-		Accept	Unlikely	Serious	2-Low	w \$ 101,000	\$ 172,0	00 \$ 585,000	36	54 100	X 10 hr/day X 2.5 FTE X \$100/hr = \$50KMost Likely Case - 40 Based on SME input and is estimated as follows:Best Case -	NA NA	12/12/2022	10/9/2023 None	
				mockup during the 8-month erosion testing	g testing may cause unexpected costs and schedule delays. The purpose of the 8-month erosion testing is transfer the equivalent amount of	Closed										Replace cycone and elbows (20 days of downtime X 10 hr/day X 4 FTE X \$75/hr plus 16 days to install X 10 hr/day X 3 FTE X				
	<u> </u>				material that is in CSSF 1 (220 cubic meters) through the full-scale mockup. There are single-points of failure on the system, such as the		L									\$75/hr plus \$5K in materialsMost Likely Case - Replace fittings (30 days of downtime X 10 hr/day X 4 FTE X \$75/hr plus 24 days				II
CAL018R2	D.3.02.30.13	IEC	Kimbro, Val	N/A <u>CalcineRET1:</u> Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays. Notification of intent to leave or retirement.	Open Threat	Accept	Likely	Major	4-High	gh \$ 48,000	\$ 80,0	00 \$ 160,000	48	80 80	Best Case: 48 days X 10 hr. X 1.25 FTE X \$80/hr. Most Likely Case: 80 days X 10 hr. X 1.25 FTE X \$80/hr.	N/A	N/A	3/12/2022 7/10/2023	Not In DCES
																Worst Case: 80 days X 10 hr. X 2 FTE X \$100/hr.				
CAL019	D.3.02.30.17	IEC	Kimbro, Val	N/A CalcineRET1: Equipment Failure at the Full-	Equipment failure at the full-scale mockup post-erosion testing may Single-point failure of equipment on the full-	Open Threat	Mitigate	Unlikely	Serious	2-Low	w \$ 101,000	\$ 172,0	00 \$ 585,000	36	54 100	Cost and schedule impacts are based on the possible scenarios	Purchase and install single-point failure	N/A	4/23/2023 7/10/2023	In DCES But has CALDR1290RM, CALDR1300RM as well.
			• •	Scale Mockup Post-Erosion Testing	cause unexpected costs and schedule delays. The purpose of the TO3.1 scale mockup system. erosion testing is to transfer the equivalent amount of material that is							-				of replacing single-point failure equipment on the full-scale mockup. Basis is estimated as follows:	equipment to resume scheduled testing.			
					in CSSF 1 (220 cubic meters) through the full-scale mockup. After erosion testing is complete, an outage will be performed to determine											Best Case - Replace cyclone and elbows (20 days of downtime x 10 hr./day x 4 FTE x \$75/hr. plus 16 days to install x				
CAL021	D.3.05.31.04	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : 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	Open Threat	Accept	Likely	Minor	2-Low	w \$ 8,000	\$ 36,0	00 \$ 72,000	4	8 16	Cost and schedule impacts are based on additional field investigations @ CPP-691 requiring additional time and	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
					verification at CPP-691. This may cause delays for successor activities, such as creating the 3D model and performing the siting study.											resources. Basis is estimated as follows: - Best Case - 4 days x 10 hr./day x 2 FTE x \$100/hr.				
CAL022	D.3.05.31.04	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Lack of CPP-691 Documentation		Open Threat	Accept	Likely	Minor	2-Low	w \$ 8,000	\$ 36,0	00 \$ 72,000	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 field	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
] [3D Model	data gaps when updating drawings, performing field verifications, and validating a 3D model of the facility. This may impact the							- 7-				investigations @ CPP-691 requiring additional time and resources. Basis is estimated as follows:				
					completeness of the Siting Study where additional work will be necessary to fill the data gaps in order to have a complete siting study.											- 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				
CAL023	D.3.05.31.04	IEC	Kimbro, Val		The Siting Study will evaluate potential locations (existing and A viable location to install a calcine	Open Threat	Accept	Unlikely	Moderate	2-Low	w \$ 64,000	\$ 128,0	00 \$ 350,000	32	32 45	Cost and schedule impacts are based on reevaluating the Siting		N/A	4/23/2023 7/10/2023	Not In DCES
				Viable Location for Calcine Processing Facil	lity greenfield) near CSSF for a processing facility. It is possible a viable location to install a calcine processing facility at the INL Site is not											Study with a new set of criteria and/or additional data. Basis is estimated as follows:				
CAL024	D.3.05.31.04	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Loss of Specialty Resources	identified or recommended (e.g., due to the outcome of a cost-benefit Loss of qualified specialty resources could result in schedule delays. Notification of intent to leave or retire.	Open Threat	Accept	Likely	Major	4-High	gh \$ 48,000	\$ 80,0	00 \$ 160,000	0 48	80 80	- Best Case - Reassess Siting Study based on new criteria and Cost and schedule impacts are based on the time it takes to	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
																backfill a position. Basis is estimated as follows: - Best Case -Backfill one position (48 days x 10 hr./day x 1 FTE				
CAL026	D.3.05.31.05	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Equalize Vendor Work Perform	ed It may be necessary to equalize vendor work that is being performed	Open Threat	Accept	Likely	Serious	4-High	gh \$ -	\$ 500,0	00 \$ 1,000,000	0 0	48 96	x \$100/hr.) Cost and schedule impacts are based on whether equalizing of	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
			, =:	Under BEA SOW	under the BEA SOW. If it is determined the results are inadequate, then additional work by the vendors may be necessary. Scope is inadequate.					81		223,0				the vendor work is required. Basis is estimated as follows: - Best Case - Cost and schedule stay as planned and any			",",","	
[included in TO3.2 to review vendor reports to determine their											impact will be managed internally by the project.				
CAL028	D.3.05.31.04	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Calcine Simulant Manufacturin	Wendors are available to manufacture calcine simulant. However, it has not been confirmed whether the available vendors can produce a simulant with the required chemical and	Open Threat	Accept	Unlikely	Minor	2-Low	\$ 100,000	\$ 200,0	00 \$ 400,000	0	16 32	Cost and schedule impacts are based on a vendor re-tooling their facility to manufacture calcine simulant. Basis is estimated	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
					calcine simulant that will have the required chemical and physical physical properties for the treatment properties for the treatment studies.											as follows: - Best Case - Vendor cost to retool \$100K and no impact to				
					physical properties will be identified during the simulant study activity planned in FY 2023.											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				
CAL029	D.3.05.31.05	IEC	Kimbro, Val		ed IEC is bringing in vendors that are performing work under the BEA Vendor work that is being performed under	Open Opportun	ty Accept	Unlikely	Minor	2-Low	w \$ (2,000,000)	\$ (100,00	0) \$ -	(64)	(32) 0	delay to schedule Cost and schedule impacts are based on whether equalizing of	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
				Under BEA Statement of Work (SOW) - Opportunity	SOW. Scope to review vendor reports to determine their adequacy and subsequently equalize the two new vendors with the current the BEA SOW is determined to be adequate.											the vendor work is required. Basis is estimated as follows: - Best Case - Equalization is minimal and the vendor is only				
					established vendor is included in TO3.2. However, if the new vendors' work is determined to be adequate, then planned scope to equalize											required to produce documentation, resulting in \$2M under budget and 4 months ahead of scU6:V17hedule.				
					these vendors work may not be necessary.											- Most Likely Case - Equalization is necessary but not at the level planned, resulting in \$1M under budget and 2 months				
																ahead of schedule Worst Case - Cost and schedule stay as planned and any				
																impact will be managed internally by project.				
CAL030	D.3.05.31.05	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Optimize Using BEA Business		Open Opportun	ty Accept	Likely	Minor	2-Low	w \$ (432,000)	\$ (216,0	00) \$ (72,000	0) (48)	(24) (8)	Cost and schedule impacts are based on BEA supporting the	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
				Relationships and Resources	existing BEA relationship and resources under the blanket master contract or other agreement established between BEA and IEC. For available at BEA that are not readily available to IEC.											scope of work and having a positive impact on the schedule. Basis is estimated as follows:				
					example, BEA may have in-house specialist that could participate in a review team on documents being produced under TO3.2 scope of											- Best Case - 48 days x 10 hr./day x 4 FTE x \$225/hr. - Most Likely Case - 24 days x 10hr./day x 4 FTE x \$225/hr.				
CAL032	D.3.05.31.02	IEC	Kimbro, Val	N/A <u>CalcineVIT</u> : Information is Insufficient to	work, such as the siting study, treatment study reports, and the Submitting a delisting petition has been determined to be a viable Insufficient information to prepare a calcine		Accept	Unlikely	Moderate	2-Low	w \$ 84,000	\$ 192,0	00 \$ 288,000	16	32 48	- Worst Case - 8 days x 10 hr./day x 4 FTE x \$225/hr. Cost and schedule impacts are based on possible schedule	N/A	N/A	4/23/2023 7/10/2023	Not In DCES
				Prepare a Delisting Petition	strategy to pursue and it is assumed the necessary information for a delisting petition is sufficient after a preliminary review of the	Realized										delays that may be realized. Basis is estimated as follows: - Best Case - One month schedule delay and external analysist				
					delisting process, regulatory requirements, previous delisting petitions, calcine data, and the calcining process. If the information is											are required (16 days to identify and evaluate additional data x 10 hr./day x 1 FTE x \$75/hr. and 2 FTE x \$225/hr.)				
					not sufficient, then preparing a delisting petition for submission to the Idaho DEQ and U.S. EPA may be delayed due to time required to fill											- Most Likely Case - Two month schedule delay and external analysist are required (32 days to identify and evaluate				
					any data gaps.											additional data x 10 hr./day x 0.5 FTE x \$75/hr. and 2.5 FTE x \$225/hr.)				
																- Worst Case - Three month schedule delay and external analysist are (48 days to identify and evaluate additional data x				
												A 4 500 5 15	40.00:		05	10 hr./day x 0.5 FTE x \$75/hr. and 2.5 FTE x \$225/hr.)		1/4	1/22/25	
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 prior to releasing operations.	Open Threat	Mitigate	Unlikely	Major	3-Moder	\$ 1,013,760 \$ 680,000	\$ 1,520,640 \$ 1,030,000	\$ 3,294,720 \$ 2,060,000	64	yb 208	Best Case: 64 days X 10 hr. X 11.07 FTEs X \$96/hr. Most Likely: 96 days X 10 hr. X 11.07 FTEs X \$96/hr.	engineering analysis and design, nuclear and	N/A	4/23/2023 7/10/2023	Recommend changing this to Transfer. BUT THE DCES AND SCHEDULE ALREADY HAVE IT IN THERE. DCES =
					pertorm.											Worst Case: 208 days X 10 hr. X 11.07 FTEs X \$96/hr.	criticality safety analysis, and operational procedure development to ensure DOE is			\$7,869.84
																	comfortable with the design and process.			
CC024	D.1.21.30.05	IEC.	Biorn C	N/A Construction of the construction		Open Threat	A	D	Calkins	2.14	erate \$ 1,658,040	\$ 3,569,5	10 6 5305355	96	208 314	Dark Coase OC days V 10 ha V 10 5 FFF 14 ACC //	N/A	In/a	4/32/3032 7/40/2022	No selding the sedim to the section
CCU24	D.1.21.30.05	IEC	Biorn, Scott	an Option to Process the Core Cartridge		Open Inreat	Accept	Rare	Critical	3-Moder	nate > 1,658,040	3,569,5	.u > 5,385,960	96	208 314	(+\$137,400)	N/A	N/A	4/23/2023 //10/2023	No mitigation action in the register
				Requires Further Research and Developme Beyond Prototype 2	objectives or acceptance criteria in											Most Likely: 208 days X 10 hr. X 16.5 FTEs X \$96/hr. (+\$274,800)				
					prototype test report.											Worst Case: 314 days X 10 hr. X 16.5 FTEs X \$96/hr. (\$412,200)				
																In addition there is a need for contract extension of \$22,900/month				
CC300	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott Engineering/Safety Analysis Determines Co		Open Threat	Mitigate	Possible	Critical	4-High	gh \$ 5,120,000	\$ 7,000,0	00 \$ 8,000,000	238	309 412		Add mechanically fasten to boration to ensure the core can be safely moved from the RSC to	3	3/1/2024 3/1/2024	On 2/17/23 NNL notified IEC engineering of a concern that will require an alternative core handling strategy
				Cannot be Safely Removed From RSC or Processed	from the RSC and transported to the laydown station without scenario(s) that result in unacceptable risk or consequence.												the core can be safely moved from the RSC to the lay down system and safely processed.			that will require an alternative core handling strategy with additional engineered controls. If the core drop analysis determines additional controls are required to
																				safely remove the core from the RSC and transfer it to the laydown system, this risk will be realized. Cost and
CC301	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott Hydrogen Levels Inside the Shipping Shield	High hydrogen gas levels between the shipping shield and the RSC Performance of shipping shield cavity	Open Threat	Accept	Possible	Serious	3-Moder	erate \$ 374,000	\$ 534,5	00 \$ 695,000	8	12 16	INCOMPLETE	N/A		3/1/2024 3/1/2024	the laydown system, this risk will be realized. Cost and schedule impacts will be dependant upon analysis results Perform drop analysis to bound shipping shield lid
CC301	5.1.21.30		a.a.ny acott	Exceed HAD Limits	riign nydrogen gas levels between the sinpping snieid and the KSC. could indicate water inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of the RSC will be required, place at CPP-666.	- Integt	жеері	. 033,016	Jerious	J Widueli	\$ 374,000	, 534,5				The second secon			3/1/2024	impacts to Railcar/shipping shield/RSC prior to the arrival of the railcar.
					seal degradation, a hydrogen sample of the RSC will be required, potentially requiring a purge of the RSC to meet HAD requirements.															
					(RSC sampling will require removal of the shipping shield lid.)															Perform revision to CSE to incorporate mitigations required by drop analysis.
CERCLA001	D.4.05.30.09	IEC	Whitmore, Erik	N/A CERCLA: Evaporation Pond Liner Damage	Existing CERCLA Evaporation liner tears which would require subcontractor support to complete repairs.	Open Threat	Mitigate	Unlikely	Moderate	2-Low	w \$ 62,532	\$ 312,6	68 \$ 468,98	7 0	0 0	No schedule delays as all other work associated would continue while repairs are done.	Allocation for repairs for material failure of the pond linear, similar to currently existing	N/A		In DCES but it has 4 more activities associated. See Column W
					этом заруют со соптриссе терин 3.											repairs are done.	situation			ER6530 not found in schedule. ER9150 is an LOE Activity?
ICDF001	D.4.05.31.03	IEC	Orme, Jason	Zovi, Bruno ICDF Ops and Maintenance: Equipment Failure	If equipment fails, it will need to be repaired or the project will need failure of any equipment (i.e. road graders, to procure a replacement. This equipment includes but is not limited excavtors, front end loaders, diesel fuel	Open Threat	Accept	Likely	Serious	4-High	gh \$ 67,240	\$ 341,0	00 \$ 511,000	30	60 90	Equipment Costs per DCES sheet / Lease Rates for Equipment Total \$81,845 - 20% Equipment Potential Failures - Daily Rates		N/A	4/23/2023 7/10/2023	Used ICDF-1025 Risk mitigation is not in DCES
					to; road graders, excavors, front end loaders, diesel fuel trailer, water trailer, water trucks, hook trucks, telehandlers, pumps, liners, Digital Control											20% Higher than Monthly Rates / ICDF Contamination Zone Risk of Leased Equipment - Lease to Buy / Work Case would be the				ICDF1055 is not in the schedule WP was not listed in the WBS in the Register
					Equipment, and Waste processor. Equipment, and Waste processor. System Equipment, and Waste processor) necessary to perform operations.											D9N Dozer Lease \$33,000				D.4.05.32 was not found in the schedule
L					поседану и регот органия.											1				

	ICDF002	D.4.05.31.03	IEC Orme, Jason	Zovi, Bruno		waste, transportation of that waste will be delayed. It may then	TSDF discontinues receiving of waste.	Open Threat	Mitigate L	kely Minor	2-Low	\$ 79,200	\$ 118,800	\$ 158,40	10 8	12	16	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = Im \$165/hr.)	plement the following possible mitigations: Jpon TSDF resuming operations,	N/A 4/23/2023	7/10/2023 In DCES
The column																		= \$165/hr.) Morst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr.+ OT = \$165/hr.)	recovered by working overtime.		
Part	ICDF003	D.4.05.31.04	IEC Orme, Jason	Zovi, Bruno	Treatment, Storage and Disposal Facility	ar During the verification process, if a waste container(s) is found to not be accordance with the NNSSWAC, the waste will need to be reworked.	packaged incorrectly, containing uncertified	Open Threat	Mitigate L	Minor Minor	2-Low				4	6		\$112.50/hr.) Most Likely Case: £12 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT ar = \$112.50/hr.) Worst Case: 16 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT =	After Issues are corrected we will reevaluate and certify waste. Overtime will be worked		
Second Column Second Colum	INDRP001	K.1.03.03.08	IEC Henry, Jennifer	Henry, Jennife	F Radiation Protection: Spare Rad Instrument Disposal	radiological instruments. 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	a strict timeline.	Open Threat	Accept Almo:	t Certain Critical	S-Very High	\$ 1,500,000	\$ 3,000,000	\$ 5,000,00	0	0	0	sparesMost Likely: require disposal of current spares and spares that come from current projects such as ARP-Worst Case: require disposal of current spares and spares that come from current projects such as ARP. Additionally there would be	/A	9/18/2023 9/18/2023	None
Part	INTEC011R2	D.3.03.32.02	IEC Baisch, Kasey	Baisch, Kasey		long repair times. Transformers can require long procurement times depending on the size needed. All production could halt within the	due to prolonged exposure to harsh outdoor weather conditions without testing or		Accept Po	ssible Minor	2-Low	\$ 250,000	\$ 545,600	\$ 2,578,00	48	96		equipment so cost to replace is the materials only of 250k. Most Likely - transformer failure which causes partial building outage (CPP-659) for duration of the time it takes to get a new transformer, MATL COST 200k LABOR COST: 96 days X12 Hr, day X 3TET X 5100/hr. Worst Case: Transformer failure includes need to replace feeder breakers also and results in loss of 1/2 of CPP-66 for furation of the time it takes to get transformer, breakers, and time to install. MATL COST: 250k LABOR COST: 160 day x x12 hr, 40% x 9 FTE X 5100/hr.	/4	7/10/2025	None
Property					Uncovers Unanticipated Objects	stop work to determine a any additional remediation prior to proceeding with excavation.	during excavation.									1		FTEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/hr w	eather shelters nearby or on site for		
Company Comp	INTEC038R2	D.3.03.38.06	IEC Wilcox, Christoph	r Wilcox, Christop		clay layer under the designated pave/repair area and then place on a		Open Threat	Accept Po	ssible Minor	2-Low	\$ 8,000	\$ 8,000	\$ 32,00	1	2	16			3/20/2022 10/9/2023	None
Second Column Second Colum			IEC Klukis, Venita		DCS electronics failure.	available products in the event of a system failure. Parts for the										150		source the job to outside engineering company just to be awarded, plus designing period, that would cost three months delay on the job.Plus extra cost to the out outside company to complete the design. For activity's 1030 and 1050 the 50Ws are in approval status and it has been quoted that the cost of both risks combined will be \$200,000K. The supply chain issue to get the material is \$2.04x, So Dest case is \$200X at 90 days. The other 2 risks 1010 and 1040 are based on labor from our software enginieers. Those risks combine for a total of 16 Days X 10 hour X 2 FERS \$1000-\$32,00032 X 10 X 2 X.			
Company Comp	INTEC045R2	D.3.03.38.07	IEC Miller, Zeena	Miller, Zeena	INTEC CPP-666 Anex HVAC Upgrades: Discovery of Asbestos			Open Threat	Mitigate Po	ssible Moderat	te 2-Low	\$ 112,000	\$ 224,000	\$ 336,00	14	28		will reduce our cost of treating asbestos (trained staff). At this point it is proposed to be probably two weeks of working days delay. Plus expenses, - 14 days X 10 hr/day X 8 FTE X \$100/hr28	sue a work order early on the process to test spect materials for asbestos.	3/20/2022 10/9/202	None
International Content of the conte	INTEC059R2	D.3.03.39.02	IEC Lords, Darin	Lords, Darin	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.	Failure of the INTEC ECS which stops the fire panel conversion work progress and testing.	Open Threat	Accept Ur	likely Serious	2-Low	\$ 30,000	\$ 180,000	\$ 270,00	30	60	90		ave an ECS recovery plan in place to repair e system.	3/20/2022 10/9/2023	None
Section As a contract of the contract contract lead recommend to the contract and and the con	INTEC060R2	D.3.03.39.02	IEC Lords, Darin	Lords, Darin	BEA reprograming was not completed in a		BEA does not reprogram and work to test system is suspended.	Open Threat	Accept Ur	likely Moderat	te 2-Low	\$ 14,000	\$ 90,000	\$ 120,00	14	30		x3fte x 100/hr = 90,000 Wo - 60d x 10h/d x 2fte x 100/hr ha	eve needed necessary documentation in ace to allow coordination between IEC and	3/20/2022 10/9/2023	None
INTECORREZ D 3.03 3.CD EC Howell, Jorathan File Crane Uggrade receit plant mise unknown and code of plant mise unknown a	INTEC067R2	D.3.03.3C.02	IEC Howell, Jonathan	Howell, Jonath	INTEC Crane Upgrade: Materials costs excee estimates.	have no basis of estimate. Controller, hook, and linear actuator lead	Supplier response to RFQ.	Open Threat	Accept L	kely Moderat	3-Moderate	\$ 375,000	\$ 500,000	\$ 625,00	0	0		is \$400K per crane and DCES currently has \$150K per crane. Used difference between values for the Most Likely case and	Α.	7/25/2022 10/9/2023	None
INTECOTOR2 D.3.03.3C.02 IEC Inns, Ryan Inns,	INTEC068R2	D.3.03.3C.02	IEC Howell, Jonathai	Howell, Jonath:		exceed estimated cost and schedule once vendor evaluation is		Open Threat	Mitigate L	kely Minor	2-Low	\$ 16,500	\$ 41,250	\$ 82,50	0	0		Previous quote from 2008 for similar work was \$120K which escalates to \$156K in today's Odlars. Worst Case assumes we increase cost by 50%, Most Likely assumes we increase cost by 25%, and Best Case assumes we increase cost by \$10%. This activity is not on the project critical path and is not expected to		7/25/2022 10/9/2023	None
support integration of new design wall penetrations will be required. support integration of new design wall penetrations will be required. support integration of new design wall penetrations will be required to design within the existing procurement. Worst Case assumes that, and a new, and work package only. Likely Case assumes that and a new, and which would not weak the procurement. Worst Case assumes that, and a new, and procurement. Worst Case assumes that, and new, and procurement. Worst Case assumes that, and new, and procurement. Worst Case assumes that, and a new, and procurement. Worst Case assumes that, and new, and procurement. Worst Case assumes that, and new, and					Impacts	priority operational evolutions to ensure that the necessary personnel and equipment are available.	beginning of higher priority operational work.						\$-	\$-				to-dry shipments are starting. The other cases assume we do not have as much schedule overlap. No cost impact is associated with this risk.	oid running into conflicts with ATR Direct ipments.		
Availability oversight, inspection, or testing forth Utility Tunnel Upgrades is not issues that impact the project schedule.					support integration of new design	wall penetrations will be required.	issues with integration into existing facility.											and work package only. Likely Case assumes that and a new, minor infrastructure installation which would drive material procurement. Worst Case assumes that, and rework to existing infrastructure. Durations are based off project historicals and	pplier will be required to design within the isting infrastructure.		
					Availability	oversight, inspection, or testing forth Utility Tunnel Upgrades is not available.	issues that impact the project schedule.											Most Likely: 16 days x 10 hrs./day x 4 people x \$75/hr. =	·		

INTECO72R2	D.3.03.35	IEC Ir	inns, Ryan	Inns, Ryan	INTEC 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 Threat	Mitigate	Possible	Minor	2-Low	\$ 12,000	\$ 48,000	\$ 144,000	4	16	48	Best Case: 4 days x 10 hr /day x 4 people x 575/hr. = \$12,000 Most Likely: 16 days x 10 hr /day x 4 people x 575/hr. = \$48,000 Worst Case: 48 days x 10 hr /day x 4 people x 575/hr. = \$144,000	le contractor early.	7,11/2023	7/10/2023	None
INTECO76R2	D.3.03.3D.02	IEC Kel	elly, Patrick	Kelly, Patrick	INTEC 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 Threat	Accept	Rare	Minor	1-Low	\$ 276	\$ 2,210	\$ 4,419	1	2	3	Best Case: \$276.19 subcontractor cost for each facility. Most Likely: 4 facility audits per day =\$1104.76 2 day delay = \$2209.52 Worst Case: 4 day delay = \$4419.04		7,11/2023	7/10/2023	None
INTEC077R2	D.3.03.38.10	IEC Wilcox	ox, Christopher V	Vilcox, Christopher	r LED 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 Threat	Accept	Possible	Major	4-High	\$ 43,525	\$ 87,051	\$ 174,102	2 54	66		Worst case assumes all lights were installed and would require replacement. Cost per light is \$220, cost per shoebox is \$290,		11/17/2022	10/9/2023	None
INTEC078R2	D.3.03.38.10	IEC Wilcox	ox, Christopher V	Vilcox, Christopher	Waste in Cell 216 Prevents Lower Light	The waste currently in Cell 216 will hinder the lower half of the LED	The upper lights are completed and waste is	Open Threat	Mitigate	Likely	Critical	S-Very High	\$ -	\$ -	\$ -	0	136		and cost to support removal and installation is estimated to be \$160K. Schedule impact worst case was found by reusing initial There is no cost impact if risk is realized, however, schedule Setup sc		11/17/2022 1	10/9/2023	None
					Replacements	light replacements.	still in the cell. Access to the lower lights is determined to be not possible.												could be impacted. Best case the waste is removed prior to light allow as value installation, most likely is based off of completing the waste load out by end of P/23, and worst case estimates the waste loadout is completed by 1/2023	s much time as possible for the Waste			
INTEC080R2	D.3.03.38.04	IEC Lo	ords, Darin	Lords, Darin	Material Delays	Cell signal boosters are delayed.	Materials are not received on scheduled date.	Open Threat	Accept	Possible	Moderate	2-Low	\$ -	\$ -	\$ -	10	20		Work is being performed by subcontractor so, minimal cost will Coordin be realized if materials are delayed but the scheduel will be		11/17/2022 1	10/9/2023	None
INTECOS2	D.3.03.32.03	IEC Har	imilton, Rob	N/A	INTEC 902 Crane Repair; Crane 902 Rail Repairs Delays New Crane Install	Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved.	Crane rail repairs continue to slip past 10/02/2023.	Open Threat	Accept	Possible	Moderate	2-Low	\$ 140,000	\$ 280,000	\$ 500,000	0	0	16	regatively impacted. Most likely scenario is a delay in the vendors supply chain. Best Case: PPE costs-\$1800 (\$500/entry/person) per week. Best Case: PPE costs-\$1800 (\$500/entry/person) per week. Straight time for union workers - 8 days X 10 hr /day X 9 FTEs X \$50/hr. cwentp personnel - 12 days X 10 hr /day X 3 FTEs X \$50/hr. seempt personnel - 12 days X 10 hr /day X 3 FTEs X \$75/hr. = \$140,000. No schedule impact since taking action prior to installation of crane. Most Likely Case: PPE costs-\$18000 per week. Straight time for union workers - 16 days X 10 hr /day X 9 FTEs X \$50/hr. covertime for union workers - 8 days X 10 hr /day X 3 FTEs X \$50/hr. seempt personnel - 24 days X 10 hr /day X 3 FTEs X \$50/hr. Seempt personnel - 24 days X 10 hr /day X 3 FTEs X \$50/hr. seempt personnel - 24 days X 10 hr /day X 3 FTEs X \$50/hr. seempt personnel - 12 days X 10 hr /day X 3 FTES X \$50/hr. seempt personnel - 12 days X		Work OT to recover schedule slip later once the apperwork is approved to install the crane	1/23/2023	7/18/2023 Risk listed a mitigation action in the register but no RM Activity ID Removed mitigation action from register. Reworded Corrective Action to reflect a post realized-risk action item.
																			\$18000 per week. Straight time for union workers - 32 days X 10 hr./day X 9 FTEs X \$60/hr. Exempt personnel - 32 days X 10 hr./day X 3 FTEs X \$75/hr.= \$500,000.				
INTECO83	D.3.03.32.03	IEC Bai	isch, Kasey	Baisch, Kasey		During the remote design of the crane, the cable reel and bridge motor were changed to meet the required clearance toler ances. It may be discovered that the cable reel and/or bridge motor tolerance do not allow for proper operation of the crane due to interference with the west wall in the PaR parking area of the cell.	Installation of the crane.	Open Threat	Accept	Rare	Moderate	1-tow	\$ 56,500	\$ 88,450	\$ 161,100	20	22		Best Case: Assuming maintenance can access cable reel and bridge motor, it will take 1 month for ACECO engineers design changes which we will not pay for due to warranty. 1 week for maintenance to fix equipment per engineering design. Craft 4 days X 10 hr./day X 9 FTEX \$50/hr. Exempt personnel 4 days X 10 hr./day X 9 FTEX x 575/hr. PPC cost \$21,500 = \$55,500Most Likely Case: 1 month for ACECO engineers design changes which we will not pay for due to warranty. 1 week for maintenance to fix equipment per engineering design. Craft 4 days X 10 hr./day X 9 FTEx X \$50/hr. Exempt personnel 4 days X 10 hr./day X 9 FTEx X \$50/hr. Exempt personnel 4 days X 10 hr./day X 9 FTEx X \$50/hr. Exempt personnel 4 days X 10 hr./day X 15 TEX \$75/hr. PPC cost \$21,500 = \$55,000. OT 2 days X 10 hr./day X 1.5 OT 1 ate X 9 FTEx X \$60/hr. Exempt personnel 2 days X 10 hr./day X 1.5 OT ate X 9 FTEx X \$60/hr. Exempt personnel 2 days X 10 hr./day X 1.5 OT ate X 9 FTEX X \$60/hr. Exempt personnel 2 days X 10 hr./day X 1.5 OT ate X 9 FTEX X \$50/hr. Exempt personnel 2 days X 10 hr./day X 1.5 OT rate X 9 FTEX X \$50/hr. 4 \$75600. OD. Exempt E-days X 10 hr./day X 1.5 OT rate X 9 FTEX X \$50/hr. 8 \$75600. OD. Exempt E-days X 10 hr./day X 3 FTEX X \$55/hr. 9 \$500.00 = \$107100.00 + PPE \$54000 = \$151,100.00		7,23/2023	//18/2023	None
INTEC137	.03.3A.05D.3.03.3A	IEC Wilcox	ox, Christopher V	Vilcox, Christopher	INTEC Firewater System: Materials Procurement Delays	Materials are delayed or not available as scheduled.	Materials are backordered or have excessive lead times.	Open Threat	Accept	Possible	Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,000	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. X 5 FTEs X \$75/hr.		4/11/2023 7	7/10/2023	None
INTEC138	.03.3A.05D.3.03.3A	IEC Wilcox	ox, Christopher V	Vilcox, Christopher	INTEC Firewater System: Equipment Lease/Procurement Delays	Equipment delayed or not available as scheduled.	Equipment is backordered or has excessive lead times.	Open Threat	Accept	Possible	Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,000	12	16		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. X 5 FTEs X \$75/hr.		4/11/2023 7,	7/10/2023	None
INTEC211	D.3.03.32.01 D.3.03.32.02	IEC Har	milton, Rob	N/A	BOP PM: Failure to Follow Process Steps and/or Expectations Results of Major Noncompliance Issue	in the event that the project experiences a major noncompliance issu- it could result in additional resources required, changes to work control, additional training required, etc.	e, A Major Noncompliance event occurs.	Open Threat	Accept	Likely	Major	4-High	\$ 250,000	\$ 500,000	\$ 1,000,000	48	96	192	AS PLES A 2/5/JR. Cost of subcontract mentors, cost to refurbish program, cost for N/A retraining.		Apply additional outside oversight to ensure we are Sollowing process steps and expectations	5/18/2023	7/10/2023 Used INBOP-PM-1020
INTEC212	D.3.03.30.04	IEC Bai	aisch, Kasey	Baisch, Kasey	BOP CM: Critical Legacy Equipment Failure	INTEC utilizes many pieces of legacy equipment, such as: cranes, overhead doors, transformers, etc. Legacy equipment has the potential of failing due to the nature of its age. Unforeseen equipmer failure can cause unscheduled outages to repair and turn the equipment back over to operations.	Equipment fails.	Open Threat	Accept	Almost Certain	Critical	5-Very High	\$ 500,000	\$ 1,000,000	\$ 2,000,000	96	192	288	616 compressor replacement actuals, potable water wiring actuals, 1647 piping actuals, cathodic protection replacement actuals.		7,	7/10/2023	None
INTEC221	D.3.03.3F.06	IEC Lo	ords, Darin	N/A	CPP-606 Vulnerabilities Upgrades: Weather Delays Power Conductor Testing and Installation	During the performance of the conductor testing for the deep well installation, severe weather could cause a delay, increasing the time needed to complete the testing.	Severe Weather.	Open Threat	Accept	Rare	Minor	1-Low	\$ 30,000	\$ 45,000	\$ 60,000	8	12		Best Case: 8 days X 10 hr. X 5 FTEs X \$75/hr. Most Likely: 12 days X 10 hr. X 5 FTEs X \$75/hr. Worst Case: 16 days X 10 hr. X 5 FTEs X \$75/hr.	ı	7.	7/28/2022	7/10/2023 Not in DCES
INTEC222	D.3.03.3F.06	IEC Lo	ords, Darin	N/A	<u>CPP-606 Vulnerabilities Upgrades</u> : Conductors Cable Fails	While testing of deep well power conductors, the cable fails the testing criteria, thus, having to be replaced.	Failed test.	Open Threat	Accept	Rare	Major	2-Low	\$ 94,500	\$ 171,000	\$ 274,500	42	76		Best Case: 42 days X 10 hr. X 3 FTEs X \$75/hr. N/A Most Likely: 76 days X 10 hr. X 3 FTEs X \$75/hr. Worst Case: 122 days X 10 hr. X 3 FTEs X \$75/hr.		7.	7/28/2022	7/10/2023 Not in DCES
INTEC223	D.3.03.3F.06	IEC Lo	ords, Darin		Connectors Damaged	During connector tie-in evolution of the Deep Well power conductors there is potential a connector kit could become damaged and new kit have to be installed or be replaced.	s	Open Threat		Rare	Minor	1-Low	\$ 60,000				16		Best Case: 12 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in M/A materials Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials Worst Case: 32 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials	ı			7/10/2023 Not in DCES
INTEC224	D.3.03.3F.06		ords, Darin		Conductor Installation, A Conductor Gets Stuck in Conduit	During the tugger/pulling evolution of the conductors, the conductor becomes wedged and will not continue into conduit.		Open Threat		Rare	Minor	1-Low	\$ 95,000				16		Best Case: 12 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in M/A materials Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in materials Most Case: 32 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in materials				7/10/2023 Not in DCES
INTEC300	D.3.03.3A	IEC Wilcon	ox, Christopher W	Vilcox, Christopher	MYEC Firewater System: Backfill Compaction Testing	Per SPC-2879 (Section 3.3 - £), Backfill compaction is required to be 35% maximum entity and will be tested once complete, neufficient backfill testing results will require correction prior to asphalt installation.		Open Threat	Accept	Possible	Minor	2-Low	\$ 32,000	\$ 128,000	\$ 256,000	4	16	32		compaction and ensure compaction lalt meets 95% prior to asphalt?	Prior backfilling activities are acceptable as is and soroject can proceed forward.	3/1/2024	3/1/2024 The workcorder did not call out testing for backfill lifts to meet 95% compaction per 5/0-2879. Force Account backfilled in the same manner to achieve 95% compaction, but no testing was performed on the project for backfilling activities. Based on work history for number of FTE Estimated values are: #D Days x 10 hr/day x 8 FTE x \$100/hr.
INTEC301	D.3.03.38.07	IEC Wilcon	ox, Christopher V	Vilcox, Christopher	INTEC CPP-666 Annex HVAC Upgrade: Subcontractor Delays	Insufficient resources to complete HVAC Upgrade until later date.	Subcontractor resources are not available to perform HVAC Upgrade.	Open Threat	Accept	Likely	Minor	2-Low	s -	\$ -	\$ -	8	16	32	Subcontractor for project and the subs under contract sub are working at MFC and had their completion date moved forward on them into the time we had the subs scheduled for our project. As of now the only impacts would be to schedule,		We can work parts of the workorder in preparation for the final work scope to be completed when manpower is available.	3/1/2024	3/1/2024 Subcontractor still working their side to see if both projects can work concurrently.
INTEC302	D.3.03.39.02	IEC Kei	elly, Patrick	Kelly, Patrick	Design from Subcontractor Inadequacies	Initial Design from subcontractor DOE-ICPs not conform with field conditions requiring additional work on drawings to be able to move forward with the work.	Drawing inadequacies discovered during work control development.	Realize Threat	Accept	Almost Certain	Moderate	4-High	\$ 175,000	\$ 230,000	\$ 350,000	24	32	48	Project I	Manager will work ahead of the work to try to remain on top of the issue.	=	3/1/2024	3/1/2024
								•									'						

INTEC303	D.3.03.3A	IEC	Wilcox, Christopher	Wilcox, Christopher	Potential Soil Sampling	There is a possibility of additional unforeseen soil sampling/testing to occur on the excavated dirt that needs to be disposed of at ICDF. Depending on results of the sampling it could introduce additional disposal requi	Testing reveals need for additional disposal equirements.	Open Threa	t Accept	Rare	Minor	1-Low	\$ 25,000	\$ 70,000	\$ 100,00	8 00	16	26	N/A 3/1/	024 3/1/2024
IT004	D.6.02.38.01	IEC	Anderson, Jade	N/A	<u>Information Technology:</u> Subcontractor Availability	Subcontractor availability (wheeler electric, Leverage) preference and availability.	Preferred subcontractor is unavailable.	Open Threa	t Mitigate	Rare	Serious	2-Low	\$ 216,000	\$ 576,000	\$ 1,296,00	24	64	144	Best Case: 24 days x 10 hr /day x 4 FTEs x \$225/hr. = \$216,000 Develop a request for back-up subcontractor. N/A 4/23/Most Likely: 64 days x 10 hr /day x 4 FTEs x \$225/hr. = \$576,000 Worst Case: 144 days x 10 hr /day x 4 FTEs x \$225/hr. = \$51,296,000	2023 7/10/2023 No mitigation in DCES
IT010 [0.6.02.36.01,.04-	IEC	Anderson, Jade	N/A	Information Technology: Software Upgrades	Scheduling testing for software upgrades (ARB risk assessments for Cyber and IT) - Derogatory information discovered during risk	Discovery of derogatory information.	Open Threa	t Mitigate	Unlikely	Minor	2-Low	\$ 18,000	\$ 72,000	\$ 288,00	00 4	16	64	Best Case: 4 days x 10 hr/day x 2 FTEs x \$225/hr.* \$18,000 Perform preliminary assessment to locate any N/A 4/23/ Most Likely: 16 days x 10 hr/day x 2 FTEs x \$225/hr.* \$72,000 vulnerabilities and adjust coding as necessary.	2023 7/10/2023 No mitigation in DCES
						assessment, or software vulnerabilities discovered render software or hardware item unfit for use at ICP.													Worst Case: 64 days x 10 hr./day x 2 FTEs x \$225/hr.» \$288,000	
IT012	D.6.03.32.01	IEC	Anderson, Jade	N/A	Information Technology: Sourcing Hardware	Due to supporting legacy and aging systems needed for on-going operations, items needed may be discontinued by the manufacturer.	Cannot source Hardware.	Open Threa	t Accept	Possible	Serious	3-Moderate	\$ 216,000	\$ 576,000	\$ 1,296,01	00 24	64	144	Best Case: 24 days x 10 hr./day x 4 FTEs x \$225/hr.= \$216,000 N/A N/A N/A N/A 4/23, Most Likely: 64 days x 10 hr./day x 4 FTEs x \$225/hr.= \$576,000	2023 7/10/2023 No mitigation in DCES
						Cannot locate items that are of limited supply.													Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$1,296,000	
ПО13	D.6.02.38,39,41 D.6.03.32 D.6.03.33 D.6.02.34 D.6.02.35.01	IEC	Anderson, Jade	N/A	Information Technology; Unforeseen Technical Issues	Unforeseen technical issues or major failures can impact the planned schedule, e.g., ransomwaire.	rechnical issues or major failures occur.	Open Threa	t Accept	Possible	Critical	4-High	\$ 320,000	\$ 960,000	\$ 1,920,00	00 40	120		Best Case: 40 days x 10 hr./day x 4 FTEs x \$200/hr.=\$320,000 N/A N/A N/A 4/23/ Most Likely: 120 days x 10 hr./day x 4 FTEs x \$200/hr.=\$500,000 Worst Case: 240 days x 10 hr./day x 4 FTEs x \$200/hr.=\$51,920,000	7/10/2023 No mitigation in DCES PP-1010 not found in schedule PP-3-1010 not found in schedule PP-3-1010 not found in schedule PP-1-1010 not found in schedule DSHP-1010 not found in schedule
IT306	D.6.02.35	IEC	Anderson, Jade	Anderson, Jade	Additional Equipment needed for Network Refresh.	Due to the unforeseen issues with the planned subcontractor for this work scope, the contract has been cancelled. This may require internal or resources to perform the work as well as purchase of additional equipment, increasing unplanned costs.	The final design has completed, and it determines there is a delta between equipment in stock and equipment needed.	Emerging Threa	t Mitigate	Almost Certain	Major		\$ 800,000	\$ 1,400,000	\$ 300,01	00 48	96	124	Refresh project. Otherwise, the project will be put on hold until equipment and be purchased. A defiable the designment in stock and equipment needed to complete the equipment can be purchased and equipment needed to complete the additional money to complete equipment.	024 3/1/2024 Toward the end of TO3P1, the subcontractor for this project presented us with a 80M for additional equipment to complete this project worth *53M. This cost was not planned in TO3P2. The IEC IT staff estimates this equipment cost to actually be *51.4.M.
NICDF006	D.4.06.3A.01	IEC DOS IGO	Reese, Craig		New ICDF Cell Definition: Potential	During installation of groundwater monitoring wells, being performed to the control of the contr		Open Threa		Rare	Minor	1-Low	\$ 30,000	\$ 75,000	\$ 120,00	00 2	5	8		this equipment cost to actually be ~\$1.4M. 2022 7/10/2023 No mitigation in DCES
		DOE-ICP	DOE-ICP FPD	Reese, Craig	Contamination of Groundwater Monitoring Well Drilling Equipment and Site	by USGs under DOE-ICP contract, there is a potential for contamination to be discovered that could impact the equipment, ground water, and/or surrounding area. This would require time and cost to move to another drilling site and to decentamination equipment decontaminate subcontractor equipment, resulting in an unforeseen extension of the contract work.	vell drilling equipment.		Transfer										Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 8 days X 10 hr./day X 20 FTEs X \$75/hr.	
NICDF007	D.4.06.32.01	#EC DOE-ICP	Reese, Craig DOE-ICP FPD	N/A Reese, Craig	New ICDF Cell: Lowering the Cell Results in Finding Basalt	If DOE/Tribes require lowering the ICDF cell berm by 7 feet freducing visual footgrint) then a modification in design and exeavation would be required. The project would have be re-design the cell, requiring-retaining the cell 90°, and exeavation. The design and exeavation with considerable provided the provided provided provided the provided pr		Open Threa	Transfer	Almost Certain	Minor	3-Moderate	\$ 150,000	\$ 240,000	\$ 720,01	10	16	48	Best Case: 10 days X 10 hrs./day X 20 FTEs X \$75/hr. N/A Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Worst Case: 48 days X 10 hrs./day X 20 FTEs X \$75/hr.	2022 9/18/2023 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 basalt 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 risk that should be covered by the Management Reserve account.
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			Open Threa	t Accept	Likely	Moderate	3-Moderate	\$ 100,000	\$ 500,000	\$ 1,250,00	10	10		Best Case: 10 days (2% increase in subcontract cost) = .02 X N/A N/A 9/21/ SSM Most Likely Case: 10 days (10% increase in subcontract cost) = .1 X SSM Worst Case: 10 days (25% increase in subcontract cost) = .2 S X	2022 7/10/2023 No mitigation in DCES
NICDF010	D.4.06.38.02	IEC	Reese, Craig		ICDF Cell 3: Funding Constraints May Impact the Acquisition Strategy	Due to the Project Data Sheet having funding over several fiscal years, (a contract for the entire construction FFP cannot be awarded. The		Open Threa	t Accept	Rare	Critical	3-Moderate	\$ 1,000,000	\$ 5,000,000	\$ 20,000,01	00 10	20	40	SSM Sest Case 10 days (2% increase in subcontractor cost) = .2 X N/A N/A 9/21, SSM SSM SSM SSM SSM SSM SSM SSM SSM SS	2022 7/10/2023 No mitigation in DCES
NICDF014	D.4.06.37.05	IEC	Reese, Craig		New ICDF Cell Definition: Excavation		negotiated.		t Accept	Likely	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 720,01	00 4	16	48	Most Likely Case: 20 days (5% increase in subcontractor cost) = 1. X SCM. Best Case: 4 days X 10 hr,/day X 20 FTEs X 575/hr. N/A N/A 9/21,	2022 7/10/2023 No mitigation in DCES
					Activities Halted		emperatures and subsequent frost line.												Most Likely Case: 16 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 48 days X 10 hr./day X 20 FTEs X \$75/hr.	
NICDF015	D.4.06.3B.01	IEC	Reese, Craig	Reese, Craig	Funding Availability for Purchasing Geosynthetics	CD-3B DOE-ICPs not get approved for early procurement of the necessary Geosynthetics prior to the construction needs in early FY24.	CD-3B approval is not obtained in time to account for long lead times on Geosythetic materials.	Realize Threa	t Accept	Possible	Minor	2-Low	\$ (1,350,000)	\$ (450,000)	\$ (75,01	-90	-30	-5	Worst Case: 5 days X 10 Inc/dy X 20 FTEs X 575/h v Most Likely	024 3/1/2024 Purchase geosyntethic material early to reduce subcontractor markups and escalation of materials. Subject to FY24 funding availability/approval.
NICDF018	D.4.06.38.02	IEC	Reese, Craig	N/A	New ICDF Cell Definition: Silica in Bentonite Requires Respirators	HSQA is discussing the possibility of requiring the use of respirators when working with Bentonite which could impact the approach to the work being performed.	HSQA requiring respirators.	Open Threa	t Accept	Possible	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 1,440,01	00 4	16		Most Likely Case: 16 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr.	2022 7/10/2023 No mitigation in DCES
NICDF020	D.4.06.37.05	IEC	Reese, Craig	N/A	New ICDF Cell Definition: Excavation Uncovers Unanticipated Materials	schedule or a need to assess a new path forward.	Discovering: (Examples) Jasalt pockets, Jn-identified utilities, Jac Contamination Archaeology artifacts	Open Threa	t Accept	Rare	Minor	1-Low	\$ 30,000	\$ 75,000	\$ 1,200,00	2	5	80	Most Likely Case: 5 days X 10 hr /day X 20 FTE x 575/hr. Worst Case: 80 days X 10 hr /day X 20 FTE x 575/hr.	2022 7/10/2023 No mitigation in DCES
NICDF021	D.4.06.34.05	IEC	Reese, Craig	N/A	New ICDF Cell Definition: Inflation Driving Costs above \$100M	In the event that the project ACWP starts to climb above \$100M the		Open Threa	t Accept	Rare	Minor	1-Low	\$ 30,000	\$ 75,000	\$ 300,01	00 2	5	20	Best Case: 2 days X 10 hr /day X 20 FTEs X 575/hr. N/A N/A Most Likely Case: 5 days X 10 hr /day X 20 FTEs X 575/hr. Worst Case: 20 days X 10 hr /day X 20 FTEs X 575/hr.	2022 7/10/2023 No mitigation in DCES
NICDF027	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.	An unanticipated accident resulting in injury or near miss.			Rare	Minor	1-Low	\$ 30,000			2	5		Best Case: 2 days X 10 hr /day X 20 FTES X 575/hr. N/A N/A 9/21, Most Likely Case: 5 days X 10 hr /day X 20 FTES X 575/hr. Worst Case: 96 days X 10 hr /day X 20 FTES X 575/hr.	2022 7/10/2023 No mitigation in DCES
NICDF030R2	D.4.06.37.05	IEC	Reese, Craig	N/A	New ICDF Cell: Overtime Required	recover project schedule.	echnical or installation issues cause chedule delays require overtime recover or maintain project schedule.	Open Threa	t Accept	Possible	Moderate	2-Low	\$ 144,000	\$ 288,000	\$ 432,01	16	32			2022 7/10/2023 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.	pring and fall weather prevent construction work at the site.	Open Threa	t Accept	Possible	Minor	2-Low	\$ 75,000	\$ 225,000	\$ 675,01	00 5	15	45	Best 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. Worst Case: 45 days X 10 hr /day X 20 FTEs X \$75/hr.	2022 7/10/2023 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 Threa	t Accept	Possible	Minor	2-Low	\$ 30,000	\$ 75,000	\$ 300,00	00 2	5	20	Best Case: 2 days X 10 hr./day X 20 FTEs X 575/hr. N/A N/A 12/8/ Most Likely Case: 5 days X 10 hr./day X 20 FTEs X 575/hr. N/A	2022 7/10/2023 No mitigation in DCES
NICDF037a	D.4.06.30	IEC	Reese, Craig	Reese, Craig	New ICDF Cell: BEA Support Services Do Not Meet ICDF Scheduled Need Dates	IEC relies on BEA for support services on Milestones, regulatory commitments, and scope completion. If the work from BEA is delayed, a or does not meet the requirements, it can cause a project schedule impact.	nsufficient quality of work product or- imeliness of completion of BEA deliverables- impacts project schedule. BEA power services do not provide power in	Open Threa	t Shared	Unlikely	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 2,640,0	00 4	16		WINST CLOSE, 20 Usey S. A. Dirt. Guy Y. A. Dirt. S. J. Syll.	023 9/18/2023
NICDF038	D.4.06.34.05	IEC	Reese, Craig	N/A	New ICDF Cell: EVMS Certification Disapproval/Delay	IEC Contract H.17 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 (ICD) 2.	timely manner. Disapproval or delay of EVMS certification.	Open Threa	t Accept	Possible	Minor	2-Low	\$ -	\$ 1,000	\$ 6,00	00 0	16		Best Case: No impacts are applied. Most Likely Case: I month delay to rework CD Approval documents: 1½/month = 5½ to Most Case: EVMS certification disapproval results in 6 months to restructure * 1½/month = 56k	/2023 7/10/2023 No mitigation in DCES
NICDF039a	D.4.06.34.05	IEC	DOE FPD	Reese, Craig	New ICDF Cell: CD2/3 PMB higher than Phase 2 Plan	e 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 also planning two years of scope under Task Ordea ? Phase 2 (P(24-P(25), eThere is a potential differentiation in the planning of those time periods making the PMB in the spring come in at a different cost or schedule than planned.	vith different costs and/or schedule	Open Threa Realized	t Shared	Possible	Serious	3-Moderate	\$ 250,000	\$ 500,000	\$ 750,01	32	64		Best Case: Additional 2 months needed for scope identified under FY24/25 time frame with additional \$250K. Most Likely: Additional 4 months needed for scope identified under FY24/25 time frame with additional \$500K. Worst Case: Additional 6 months needed for scope identified under FY24/25 time frame with additional \$500K.	2023 9/18/2023
NICDF040	D.4.06.37.05	IEC	Reese, Craig	Reese, Craig	Excavation Uncovers Unanticipated Basalt	While doing excavation there is a chance to uncover basalt in the Cell 3 area that can cause a delay in the schedule or a need to assess a new	Discovering Basalt pockets.	Open Threa	t Mitigate	Possible	Minor	2-Low	\$ 30,000	\$ 75,000	\$ 1,200,00	00 2	5	80	Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Worst Case: 80 labor and equipment to remove the basalt.	024 3/1/2024 None
					I	path forward.								l			1	<u> </u>	days X 10 hrs/dy X 20 FTEs X \$75/hr	

NRFDD008R2	2D.5.01.30.20D.5.0	IEC	Burtenshaw, Shawna B	Burtenshaw, Shawn	NRF Naval Reactors: Loss of Contamination Control	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 Threat	Accept	Rare Unlikely	Critical Moderate	3-Moderate	\$750,000 \$100,000	\$ 1,500,000 \$ 500,000	\$3,000,000 \$1,000,000	100 10	180 24	204 32	Best Case-100 days +10 hrs/day +8 people ±592/hr. = 5750,000 Most Lifely: 130 days +10 hrs/day +8 people ±593/hr. = 51,500,000 Worst Case-20 days +10 hrs/day +8 people \$593/hr. = 53,000,000 Impacts are estimated based on loss of contamination requirin	N/A	3/20/2022 10/9/-	2023 None
NRFDD009	D.5.01.32	IEC	Burtonchau Shawna	turtonchau Shaum	NOT Nevel Desiders NOT West Cate Assess	The West astrono for NOT minerals of the United Immerson for	The base of colored and colored and	Open Threat	: Accept	Likely	Minor	21	\$ 21,000	\$ 42,000	\$ 84,000	1 4	8	16	impacts are estimated based on ioss or contamination requirin a step back and recovery planning, additional surveys and PPE, and execution to recover the area. Best Case: 4 days X 10 hrs/dy X 7 FTEs X \$75/hr Most Likely	N/A	INCOMPLETE 7/10/	2023 None
NNI DDOOS	b.3.01.32	ile.	but tensilaw, silawila	ur tersnaw, snawn	nnr navai neattuis. nnr viest Gale Access	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.		Open Inteat	жеерг	Likely	Minor	2-LOW	3 21,000	3 42,000	3 64,000		8		Dest Lebe: 4 Ugry A 10 III N/Ug X / T FE X 3/5/JII WOS LIKEY Zaee: 8 days X I D Irs/g W X T FE E X 5/5/Jhr Worst Case: 16 days X10 hrs/dy X 7 FTEs X \$75/hr	N/A	INCOMPLETE // 20/2	100E
NRFDD010	D.5.01.32	IEC	Burtenshaw, Shawna B	Jurtenshaw, Shawn	NRF Naval Reactors: A1W Turnover Delayed	This work scope is based off an FMP schedule with a phased approach to turnover and transfer ancillary ALW 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.	, scheduled.	Open Threat	Accept	Rare	Minor	1-Low	\$ 21,000	\$ 42,000	\$ 84,000	4	8		Best Case: 4 days X 10 hrs./day X 7 FTEs X \$75/hr. Most Likely Case: 8 days X 10 hrs./day X 7 FTEs X \$75/hr. Worst Case: 16 days X10 hrs./day X 7 FTEs X \$75/hr.	N/A	4/12/2022 7/10/2	2023 None
NRFDD011	D.5.01.32	IEC	Burtenshaw, Shawna B	Burtenshaw, Shawn	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 Threat	t Accept	Rare	Moderate	1-Low	\$ 37,500	\$ 225,000	\$ 337,500	5	30	30	Best 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 7/10/2	2023 None
NRFDD012	D.5.01.32	IEC	Burtenshaw, Shawna B	Burtenshaw, Shawn	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 Threat	Accept	Rare	Critical	3-Moderate	\$ 750,000	\$ 1,500,000	\$ 3,000,000	100	180	204	Best Case: 100 days x 10 hrs./day x 8 people x \$93/hr. = \$750,000	N/A	3/20/2022 7/10/2	2023 None
RHTRU001R2	D.2.04.30.14	IEC	Troescher, Pat	N/A	RH-TRU Waste Disposition: Achieving FY24/25 Processing Lot 11 Containers Due to Critical Failure of Equipment	Achievement of the FY24 of processing 10 Lot 11 containers and the FY25 of processing 10 Lot 11 containers, due to critical failure of equipment, impacts the daho Settlement Agreement (ES) and Delay to site 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	Open Threat	: Accept	Unlikely	Moderate	2-Low	S 200,000	\$ 300,000	\$ 600,000	16	32		\$3,000,000 Cots are based on fees associated with missed delivery dates. Best Case: 16 days down time X 20 FTEs X \$41.50/hr. X 10hr. = \$132,800 of fee Most Likely: 32 days down time x 20 FTES X \$41.50/hr. X 10hr. \$265,600 of fee Worst Case: 64 days down time x 20 FTES X \$41.50/hr. X 10hr. \$531,200 of fee	N/A	Actions include: * The MSM critical spare parts for the Models FX, F, and G is based on current critical spare parts inventory, consumption of critical spares, 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 PD and CPP659 NUCF to cells. In enve PaR tube assembly was procured and installed in the CPP-666 PD and CPP650 CPP-659 and CPP-666. Monthly and annual PM's are performed on the PaR's 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-666. There are spare electrical components (i.e., 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 proude funding for procurement of manipulators and upgrades to the FDP in cell crane from analog to digital.	7/10/2023 Has a mitigation action in the register, but no mitigation activity in the schedule. Remove Mitigation Action from Register? Not in OCES 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	N/A	RH-TRU Maste Disposition: Achieving F74/25 Milestones for Processing Lot 11 Containers Due to Complex Geometries	Achievement of the PY24 milestone of processing 10 Lot 11 containers and the PY35 milestone of processing 10 Lot 11 containers, due to inability to treat sodium in waste with complex geometries, impacts the Idaho Settlement Agreement (IS4) and Delay to site treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.	waste containing significant quantities (>100g) of NaK are found in repackaging Lot 11 waste.		: Accept	Unlikely	Minor	2-Low	\$ 16,600	\$ 33,200	\$ 66,400	8	16		Schedule impact is based off SDS system being down and in need of repair. Best Case: 8 days down time X 5 FTES X \$41.50/hr. X 10hr. = \$16,600 Most Likely: 16 days down time x 5 FTES X \$41.50/hr. X 10hr. = \$33,200 Worst Case: 32 days down time x 5 FTES X \$41.50/hr. X 10hr. = \$66,400	N/A	1. Methods used to size Lof 6 waste components will be used for the Lof 11 waste components. Complex geometries may still result in not being able to complete resement 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 (i.e., Transducers) were found that water treatment was not table and could only be distilled or sent off size 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.	7/10/2023 Updated WBS. 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 RHTRU003. Not in DCES Deleted Mitigation action in column V. It was item number 2 for the above risk in column AD.
RHTRU003	D.2.04.30.14	IEC	Troescher, Pat	N/A	RH-TRU Waste Disposition: Processing Lot 11 Containers	Processing lot 11 containers are taking longer than planned due to inaccurate generator information. Causing the use of OT to catch up.	Inaccurate generator information.	Open Threat	: Mitigate	Possible	Minor	2-Low	\$ 24,900	\$ 49,800	\$ 97,600	2	4		Best Case: 2 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$24,900 Most Likely: 4days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT \$49,800 Worst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT \$7,600 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT \$7,600	slippage and reduce further schedule interruptions.	N/A 4/23/7	2023 7/10/2023 Updated WBS. Added secondary Mitigation Activity found in schedule. In OCES Updated Mitigation action to match what was in the DCES.
RHTRU300	D.2.04.30	IEC	Troescher, Patrick	Troescher, Patrick	RH TRU disposition exhausts stoagre space.	There is a risk that the RH TRU disposition project will enhaust Interim Storage Container space for Lot 11 product drums generated that are greater than 200 mR/hr.	s Shipping of LLW was put into priced option. Therefore, not being able to ship the waste will also producing additional waste will exhaust storage space.	Emerging Threat	Accept	Almost Certain	Minor	3-Moderate	\$ 10,000,000	\$ 13,500,000	\$ 15,000,000	64	80	96	These impacts are based on the remaining wast to be porcesse against space needed for storage.		3/1/2	The percentage of drums generated that are greater than 200 mR/hr is approximately 90% of the total population of Lot 11 drums generated. The number of drums generated in the past six months is approximately 3.3 There are currently 4.6 open positions to store Lot 11 product drums greater than 200 mR/hr. Based on the current generation rate and 30% of drums generated, the RH TRU project uit in out of space in three years (best case). Most likely case is estimated the RH TRU project will run out of space in drums years. The transport of the RH TRU project will run out of space in one years.
SNF007R2	D.1.02.32.31	IEC	Ellsworth, Carla	N/A	Advanced Test Reactor (ATR) SNF Receipt: CPP-603 PaR Manipulator Malfunction	ATR-Direct: Transfers are delayed because of a malfunctioning CPP- 603 PaR manipulator (MAN-GSF-401).	While operating the CPP-603 PaR manipulator (MAN-65F-401), certain PaR motions appear to be or are abnormal/malfunctioning. Failure of the manipulators results in schedule delays.	Open Threat	Accept	Likely	Minor	2-Low	\$ 107,016	\$ 214,032	\$ 535,080	7	14		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. Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	Maintain the PAR. Work with BEA to reschedule ATR Receipts.	2022 7/10/2023 Not in DCES
SNF008R2	D.1.02.32.31	IEC	Ellsworth, Carla	N/A	Advanced Test Reactor (ATR) SNF Receipt: Camera Failures Due to High Radiation Fields	ATR-Direct: High rad fields in the cave cause premature failure of the cameras in the CPP-603 fuel handling cave.	Failed remote cameras hinder or prevent normal fuel handling operations in the CPP- 603 IFSF cave and fuel storage area.	Open Threat	Mitigate	Likely	Minor	2-Low	\$ 45,864	\$ 214,032	\$ 428,064	3	14		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.		2022 7/10/2023 In DCES
SNF009R2	D.1.02.34.02	IEC	Reynolds, Boedre Ellsworth, Carla	N/A	CPP-749 1st Generation Vaults Remediation: Changing CPP-749 Security Requirements	CPP-749 Remediation: Project activities are delayed because of changing CPP-749 security requirements.	Requirements derived from planned security related vulnerability assessments impose more restrictive security controls.	Open Threat	Accept	Possible	Minor	2-Low	\$ 45,864	\$ 214,032	\$ 428,064	3	14		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-uo Cameras N/A	Work with DOE/BEA to ensure project activities comply with security plan.	2022 7/10/2023
SNF010R2	D.1.02.34.02	IEC	Reynolds, Boedre Ellsworth, Carla	N/A		CPP-749 Remediation: Interim Storage Area (ISA)-4 shielding is determined to be inadequate, resulting in radiation levels higher than those allowed for extended work in the 1st Generation Vault area.		Open Threat	Accept	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. Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	Work with Radiation protection, engineering, and waste management to mitigate radiation levels.	2022 7/10/2023
SNF011R2	D.1.02.34.02	IEC	Reynolds, Boedre Ellsworth, Carla	N/A	CPP-749 1st Generation Vaults Remediation: Excessive Corrosion in The Peach Bottom Vaults	CPP-749 Remediation: Fuel packages stored in certain Peach Bottom vaults are found to have excessive corrosion, precluding normal fuel package retrieval methods.	During Peach Bottom vault inspections, corrosion capable of jeopardizing the structural integrity of the fuel package lifting feature is observed. 2) A discharge of fuel is observed when lifting a fuel package to visually inspect its bottom.	Open Threat	: Accept	Possible	Minor	2-Low	\$ 107,016	\$ 214,032	\$ 535,080	7	14		Best Case: 7 days X 12 hr. X 13 FTEs X 598/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X 598/hr. Worst Case: 35 days X 12 hr. X 13 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 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 retrieval equipment capable of safely litting a jeopardized fuel package has been developed and reviewed/approved by DOE.	2022 7/10/2023
SNF015R2	D.1.02.32.31	IEC	Ellsworth, Carla		schedule Delay Caused by ATR	C ATR Direct: IEC schedule delay caused by ATR.	Equipment and/or operations delays at ATR cause delayed or moved shipment dates to INTEC.			Almost Certain	Minor	2-Low		\$ 214,032 \$ 1,700,000	\$428,064 \$1,700,000	3	14 208	208	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	Alternative work activities will me made available by upper management in the even of an ATR schedule delay.	ent	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.	Destaco clamps found to be damaged or damaged when remotely attempting to open/close a clamp.	Open Threat	t Accept	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.= \$1,231,258 Most Likely: 180 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,308,608 Worst Case: 204 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,616,422	N/A	N/A 3/20/2	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	t Accept Mitigate	Rare	Moderate	1-Low	\$ 6,000 \$ 675,000	\$ 120,000 \$ 2,025,000	\$240,000 \$5,400,000	8 30	32 60	64 120	Seek Cases - 8 days X-10 hr /day X-1 FE X-575 /hr - Most Likely Cases - 32 days X-10 hr /day X-5 FTE X-575 /hr - Wass Cases - 64 days X-10 hr /day X-5 FTE X-575 /hr - Wass Cases - 30 days X-10 hr /day X-3 FTE X-575 /hr - Most Cases - 60 days X-10 hr /day X-45 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-45 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /day X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Cases : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-6 FTE X-575 /hr - Worst Case : 120 days X-10 hr /days X-1	N/A	N/A 1/11/7	2023 7/10/2023

SNF021R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Subcontract Management	Not securing a subcontractor 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 1	hreat Acc	ept 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%	N/A	N/A 1,	/11/2023	7/10/2023
																			Most Likely Case: 42 days (10% increase in subcontract cost) = \$600k X 10% Worst Case: 72 days (20% increase in subcontract cost) = \$600k				
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	Open 1	hreat Acc		Minor	2-Low	\$ 12,000	\$ 30,000	\$ 60,000	8	16	32	X 20% Best Case: 8 days (2% increase in subcontract cost) = \$600k X		N/A 1,	1/11/2023	7/10/2023
							additional power.		Miti	gate									2% Most Likely Case: 16 days (5% increase in subcontract cost) = \$600k X 5%				
																			Worst Case: 32 days (10% increase in subcontract cost) = \$600k X 10%				
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 1	hreat Acc Miti		Minor	2-Low	\$ 12,000	\$ 30,000	\$ 60,000	8	16		Best Case: 8 days (2% increase in subcontract cost) = \$600k X 2% Most Likely Case: 16 days (5% increase in subcontract cost) =	N/A	N/A	/11/2023	7/10/2023
																			\$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 Subcontracto	rs Subcontractor not on Qualified Supplier List (QSL) at the appropriate quality level.	No qualified vendor identified during solicitation process.	Open 1	hreat Acc	ept Unlikely gate Possible		2-Low	\$ 9,000 \$ 3,000,000	\$ 157,500 \$ 5,000,000	\$ 270,000 \$ 8,000,000	12	42	72	8est 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.	N/A	N/A 1	1/11/2023	7/10/2023
																			Worst Case: 72 days X 10 hr./day X 5 FTEs X \$75/hr. Best Case: \$3M in design rework Likely Case: \$5M in design rework and reordering of materials. Worst Case: \$8M				
SNF034	D.1.04.01.10	HEC:	Cotterell, Jaksen	N/A	SNF Staging Facility: IEC CD-1 Submittal Dat	ie In the event that project scope changes, The AoA changes project	CD-1 submittal date is missed.			ept Likely	Serious	4-High	\$ 58,840	\$ 95,040	\$ 121,840	41	58		Best Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks	N/A	N/A 4,	1/23/2023	7/10/2023
		DOE-ICP	DOE-ICP FPD	Cotterell, Jaksen		scope which causes delays in submittal of the CD-1 package which causes delays submittal of the CD-1 review, this could lead to losing our position in queue for DOE Board Reviews. If this risk were realize	d	Realize	Trar	sfer									@ \$80/hr. and 50,000 for subcontract design + 30day Most Likely: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and 80,000 for subcontract design + 60 days				
						it would subsequently delay project schedule. successor activities within this project.	u,												Worst Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE 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.				
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	During drilling activities, vacancies or low	Open T	hreat Acc	ept 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,	1/23/2023	7/10/2023
						bearing pressure may cause major ground stabilization activities.	bearing soil is found.		Miti	gate									Best Case: 5 weeks	adjust the location of the pad as necessary.	on soil investigation		
																			Most Likely 8 weeks Worst case 12 weeks	Over-excavation and backfill with suitable material.			
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.		Open T	hreat Acc	ept Possible	Moderate	2-Low	\$ 51,600	\$ 126,000	\$ 242,000	16	32	64	Each day will cost 1,000/day to relocate the pad. Best Case: Redesign the pad to not impact existing infrastructure/utilities: 1 subcontractor for 1 additional month	N/A		1/23/2023	7/10/2023
							security systems.												worth of work for \$50K and 1 FTE in engineering for 1 month @ \$100/hr.		avoid existing utilities if possible		
																			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				
SNF039	D.1.04.03.03	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Nuclear Safety	Per STD-1189-2016 it was determined that the Staging Facility will be	DOE evaluation determines that the Staging	Copen T	hreat Acc	ept Possible	Critical	4-High	\$ 500,000	\$ 750,000	\$ 1,000,000	104	156	208	and \$50,000 in construction costs Best Case: 104 days and increase of \$500,000	N/A	Discuss safety design strategy early in the project and 4,	1/23/2023	7/10/2023
					Documents	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		Realized											Most Likely Case: 156 days and increase of \$750,000 Worst Case: 208 days and increase of \$1M		frequently. IEC to state position and work with DOE Nuclear Safety group		
						that a Safety design strategy will be required.																	
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	Contract cannot be awarded to one single- subcontractor to perform both designs.	Open T	hreat Acc	ept Possible	Moderate	2-Low	\$ 15,600 \$ 200,00	\$ 31,600 \$ 500,000	\$-71,600 \$1,000,000	24	32		Develop a second SOW, work through a second contract through subcontract administration. Additional coordination	N/A	second statement of work and contract a local	1/23/2023	7/10/2023
						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-	The progression of each design DOE-ICPs not progress as currently scheduled.												for IEC to manage two engineering firms and process paperwork.		engineering firm to perform the security design.		
						two separate contracts, solicitation, and additional work to place the subcontractors on the Qualified Supplier List.	-												Best Case: 2 weeks @ 40hr./week x 1 FTE @ \$100/hr.+ 4 weeks @ 95 hr. for sub administration @ \$80/hr.				
						BEA has confirmed they will perform the security design for the Staging Facility. The pad design will be performed by an external													Most Likely: 4 weeks @ 40hr./week x 1.5 FTE @ \$100/hr.+4 weeks @ 95 hr. for sub administration @ \$80/hr.				
						company. Coordination between the two designs is beyond originally anticipated.													Worst Case: 8 weeks @ 40hr./week x 2 FTE @ \$100/hr.+6 weeks @ 95 hr. for sub administration @ \$80/hr.				
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 closure/leak test procedures as well as the welding	Training received from subcontractor is delayed.	Open T Closed	hreat Acc	ept Unlikely	Major	3-Moderate	\$ 100,000	\$ 150,000	\$ 200,000	64	96	128	Best Case: 64 days plus equipment/materials Most Likely Case: 96 days plus equipment/materials	N/A	N/A 4,	1/23/2023	7/10/2023
SNF054	D.1.02.34.02	IFC	Reynolds, Boedre	N/A		equipment, which leaves the possibility of project schedule delays if subcontractor is delayed.			hreat Miti	gate Possible		2-l gw	\$ 15,500	\$ 46,000	\$ 62,000		2		Worst Case: 128 days plus equipment/materials			1/23/2023	7/10/2022
SNFU54	D.1.02.34.02	IEC	Reynolds, Boedre	N/A	Peach Bottom: Mobile Crane Maintenance	Exceeding the Mobile Crane manufacturers recommended operating	Mobile Crane operator observes the		nreat IVIIti	gate Possible	Minor	2-Low	\$ 15,500	\$ 46,000	\$ 62,000	1	2	4	Best Case: 1 day plus equipment/materials	1.) Increase periodicity of planned	N/A 4,	1/23/2023	//10/2023
						hours for performing routine maintenance delays Peach Bottom transfers.	machines monitoring system and concludes the manufactures recommended operating	Realized											Most Likely Case: 2 days plus equipment/materials Worst Case: 4 days plus equipment/materials	maintenance. 2.) Perform additional routine observations to	0		
							machines monitoring system and concludes the manufactures recommended operating hours are exceeded.	Realized												Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed	0		
							the manufactures recommended operating	Realized												Perform additional routine observations to the machines monitoring system so			
							the manufactures recommended operating	: Realized												Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations.			
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNE Staging Facility. Geotechnical Drilling Subcontractor Equipment	transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.		hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with	Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA		1/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any.	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		1/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		1/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	5 1,300,000	8	16	64	Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		1/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Impacts to schedule on IEC activities will be minimal if any. Mojor impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @SOInhr. for 80 hours. Subcontractor lose 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		3/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people getSolhr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spen2 weeks wiping down subcontractor	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		1/24/2023	7/10/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	5 1,300,000	8	16	64	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQIrh. rof 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel \$200K per week wiping down subcontractor equipment 4 people @ \$50/hr. for 80 hours	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		3/24/2023	7/30/2023
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		transfers. The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	the manufactures recommended operating hours are exceeded.	Open T	hreat Acc	ept Likely	Serious	4-High	\$ 316,000	\$ 564,000	\$ 1,300,000	8	16	64	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people go Solyhr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people & \$50Kn/r. for 80 hours Worst Case: Subcontractor must replace the piece of equipment, rent equipment. Worst of current projects and wait 4 months for new equipment. New Equipment is \$50K, rental is	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.		3/24/2023	7/10/2023
					Subcontractor Equipment	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced.	the manufactures recommended operating hours are exceeded. Contamination is identified.	Open- Closed										64	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SOR/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100k per week Most Likely: Parts of the equipment must replaced equating to \$100k, and the subcontractor has delays on other projects of 4 weeks @ \$100k per week and \$50k' in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment apeople @ \$50/hr. for 80 hours Worst Case: Subcontractor must replace the piece of equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200k per month	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A A,		
SNF068 TO3002R2	D.1.04.02.02 Project Wide		Cotterell, Jaksen Cotterell, Jaksen Multiple CAMs		Subcontractor Equipment	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure.	the manufactures recommended operating hours are exceeded. Contamination is identified. Events that are above average or severe weather conditions occur, based on	Open 1	hreat Acc			4-High						64	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely: Patro of the equipment must replaced equating to S100K, and the subcontractor has delays on other projects of 4 weeks @ S100K per week and S50K in delays on other projects. ECC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SS0/hr. for 80 hours Worst Case: Subcontractor must replace they equipment, requipment for current projects and wait 4 months for new equipment. New equipment is S500K, rental is \$200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .5 days	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A A,	1/24/2023	
				Multiple Projects	Subcontractor Equipment Global Risk: Work Delay Due to Abnormal Weather Conditions	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced.	the manufactures recommended operating hours are exceeded. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site closure.	Open 1		ept Possible	Serious			\$ 1,000,000	5 7,000,000	0.5		64	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people ge SOghr. for 80 nours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A 4,		7/10/2023
TO3002R2	Project Wide	IEC	Multiple CAMs	Multiple Projects	Subcontractor Equipment Global Risk: Work Delay Due to Abnormal Weather Conditions	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule.	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site closure. K. External event(s) at other INI. locations other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events that shut down other works are such as the contamination events are such as the contamination of the contamination events are such as the contamination of the contamination events are such as the co	Open 1	hreat Acc	ept Possible	Serious		\$ 500,000	\$ 1,000,000	5 7,000,000	0.5	1	7 7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely: Patro of the equipment must replaced equating to S100K, and the subcontractor has delays on other projects of 4 weeks @ S100K per week and S50K in delays on other projects. ECC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SS0/hr. for 80 hours Worst Case: Subcontractor must replace they equipment, ren quipment for current projects and wait 4 months for new equipment. New equipment is S500K, rental is \$200K per month Best Case: Complete Site Shut Down for 5 days Worst Case: Complete Site Shut down for 7 days	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A 4,	1/13/2022	7/10/2023
TO3002R2	Project Wide	IEC	Multiple CAMs	Multiple Projects	Subcontractor Equipment Global Risk: Work Delay Due to Abnormal Weather Conditions	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule.	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site closure. K. External event(s) at other INI. locations other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facilities, any crisis that is found at another facility that could potentially exist at Idaho	Open 1 Open 1	hreat Acc	ept Possible	Serious		\$ 500,000	\$ 1,000,000	5 7,000,000	0.5	1	7 7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely: Parts of the equipment must replaced equating to S100K, and the subcontractor has delays on other projects of 4 weeks @ S100K per week and S50K in delays on other projects of 500K, and the subcontractor has delays on other projects of 6 weeks @ S100K per week and S50K in delays on other projects of 6 weeks @ S100K per week and S50K in delays on other projects. EC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ S50/hr. for 80 hours Worst Case: Subcontractor must replace the piece of equipment, rene quipment for current projects and wait 4 months for new equipment. New equipment is S500K, rental is \$200K per month Best Case: Complete Site Shut Down for 5 days Worst Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A 4,	1/13/2022	7/10/2023
TO3002R2 TO3005R2	Project Wide Project Wide	IEC IEC	Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects	Global Risk: Work Delay Due to Abnormal Weather Conditions Global Risk: Stop Work Due to External Events	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site close. External event(s) at other INI. locations or other DOE sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facilities, any crists that is found at another facilities, any crists that is found at another facility that could potentially exist at idaho (clienty that could potentially exist at idaho, etc.	Open 1	hreat Acc	ept Possible	Serious Serious	3-Moderate	\$ 500,000	S 1,000,000	\$ 7,000,000 \$ 7,000,000	0.5	1	7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people go Solyhr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days	2.) Perform additional routine observations to the machines monitoring systems so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A	N/A 4,	5/8/2022	7/10/2023
TO3002R2	Project Wide	IEC	Multiple CAMs	Multiple Projects Multiple Projects	Subcontractor Equipment Global Risk: Work Delay Due to Abnormal Weather Conditions	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Contamination is identified. Events include an object of the include and sold in the include and sold in the include and include an	Open 1 Open 1	hreat Acc	ept Possible	Serious Serious	3-Moderate	\$ 500,000	S 1,000,000	\$ 7,000,000 \$ 7,000,000	0.5	1	7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely: Parts of the equipment must replaced equating to S100K, and the subcontractor has delays on other projects of 4 weeks @ S100K per week and S50K in delays on other projects of 500K, and the subcontractor has delays on other projects of 6 weeks @ S100K per week and S50K in delays on other projects of 6 weeks @ S100K per week and S50K in delays on other projects. EC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ S50/hr. for 80 hours Worst Case: Subcontractor must replace the piece of equipment, rene quipment for current projects and wait 4 months for new equipment. New equipment is S500K, rental is \$200K per month Best Case: Complete Site Shut Down for 5 days Worst Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day Best Case: Complete Site Shut Down for 1 day	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	N/A 4,	5/8/2022	7/10/2023
TO3002R2 TO3005R2	Project Wide Project Wide	IEC IEC	Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects	Global Risk: Work Delay Due to Abnormal Weather Conditions Global Risk: Stop Work Due to External Events	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DDE sites cause a stop wor between the contamination of the cost and schedule. Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (ECL), limitation of base scope execution may be experienced as a direct result of variability in funding, limiting to execute base scope under the end state contract model will result in longer durations required to result he desired end-states. This will	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site Closure. K. External event(s) at other INI. locations or other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope.	Open 1 Open 1	hreat Acc	ept Possible	Serious Serious	3-Moderate	\$ 500,000	S 1,000,000	\$ 7,000,000 \$ 7,000,000	0.5	1	7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people go Solyhr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days	2.) Perform additional routine observations to the machines monitoring systems so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A	N/A 4,	5/8/2022	7/10/2023
TO3002R2	Project Wide Project Wide	IEC IEC	Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects	Global Risk: Work Delay Due to Abnormal Weather Conditions Global Risk: Stop Work Due to External Events	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site dosure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor be considered to the contamination of the	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site Closure. K. External event(s) at other INI. locations or other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope.	Open 1 Open 1	hreat Acc	ept Possible	Serious Serious	3-Moderate	\$ 500,000	S 1,000,000	\$ 7,000,000 \$ 7,000,000	0.5	1	7	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people go Solyhr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects. IEC personnel spend 2 weeks wiping down subcontractor equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days	2.) Perform additional routine observations to the machines monitoring systems so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A	N/A 4,	5/8/2022	7/10/2023
TO3002R2	Project Wide Project Wide	IEC IEC	Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Silobal Rist: Work Delay Due to Abnormal Weather Conditions Global Rist: Stop Work Due to External Events Line-litem Project Funding Ch-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor work of the contamental coalition (IEC), limitation of base scope execution may be experienced as a direct result of variability in funding, Inability to execute base scope under the end state contract model will result in longer durations required to reach the desired end-states. This will increase the overall costs of the lidaho Cleanup Project (ICP), and coul impact staffing levels. If WIPP certified characterization equipment fails and can no longer tuget, then CH TRU waste certification and shipment could be	Events that are above average or severe weather conditions of some store to the store of the sto	Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely sre Almost Certa	Serious Serious	3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1	7 7 1,800	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wijning down subcontractor equipment 4 people @ \$50/hr. for 80 hours. Subcontractor equipment 4 people @ \$50/hr. for 80 hours. Subcontractor loss 3 weeks on other projects - cost @ \$100k per week Most Likely: Parts of the equipment must replaced equating to \$100k, and the subcontractor has delays on other projects in EC personnel spend 2 weeks wijning down subcontractor equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for 1 day Most Likely: Complete Site Shut down for 1 day Most Likely: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 3 days Most Likely: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Best Case: Most Likely Case: Worst Case: Best Case: Most Likely Case: Worst Case: Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Most Likely: 68 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Most Likely: 68 days x 10 hr /day x 2 people x \$75/hr. = \$10,200	2.) Perform additional routine observations to the machines monitoring systems so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A Proposed Share to DOE	N/A 4, N/A 4, N/A 4, N/A 5, Continue to perform maintenance on equipment, keep spare parts on hand, and monitor data quality to verify	1/13/2022 6/8/2022	7/10/2023 7/10/2023 None Graf, Jeffrey S
TO3002R2 TO3005R2 TO3P2005a	Project Wide Project Wide Project Wide	IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Global Risk: Work Delay Due to Abnormal Weather Conditions Global Risk: Stop Work Due to External Events Line-Item Project Funding	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DDE sites cause a stop wor be experienced as a direct result of variability in funding, limiting to execute base scope onder the end state contract model will result in longer durations required for each the desired end-states. This will increase the overall costs of the ldaho Cleanup Project (LPP), and coul impact staffing revers.	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Contamination is identified. External event(s) at other INI. Iocations or other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope.	Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely sre Almost Certa	Serious Serious	3-Moderate 2-Low 5-Very High	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 7 1,800	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely. Part of the equipment must replaced equating to S100K, and the subcontractor has delays on other projects of 4 weeks @ S100K per week and S50K in delays on other projects of 6 store should be subcontractor and S50K in delays on other projects of 6 seeks @ S100K per week and S50K in delays on other projects of 6 seeks @ S100K per week and S50K in delays on other projects of 6 seeks @ S100K per week and S50K in delays on other projects of 6 seeks © S100K per week and S50K in delays on other projects of 6 spending the subcontractor must replace the gown subcontractor equipment 4 people @ S50/hr. for 80 hours Worst Case: Subcontractor must replace the wait 4 months for new equipment. New equipment is 5500K, rental is \$200K per month Best Case: Complete Site Shut Down for 5 days Morst Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut Down for 7 days Best Case: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Best Case: Most Likely Case: Worst Case: Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on	N/A 4, N/A 4, N/A 5, N/A 6, A5250 1,	1/13/2022 6/8/2022	7/10/2023 7/10/2023 None Graf, Jeffrey S
TO3002R2 TO3005R2 TO3P2005a	Project Wide Project Wide Project Wide	IEC IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Slobal Risk: Work Delay Due to Abnormal Weather Conditions Global Risk: Stop Work Due to External Events Line-litem Project Funding CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification CH-TRU Waste Disposition: Non-Destructive CH-TRU Waste Disposition: Non-Destructive	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. 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If NDA results, using ISOCs and all other available NDA equipment, will find the results of the substance of the project of the stage of the project of the substance of the project of the leaf to the leaf to the project of the leaf to the	the manufactures recommended operating hours are exceeded. Contamination is identified. Exercise of the contamination is identified at 0 Site contamination is identified in the contamination of the contamination events in Include to Contamination events that shut down other facility that could potentially exist at idaho (Ceanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding causes limitations that impact the execution of the base scope. If allure of nondestructive assay or real-time-radiography equipment.	Open 1 Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely are Almost Certa	Serious Serious In Critical Major	3-Moderate 2-Low 5-Very High 3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 7 1,800	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ S100K per week Most Likely. 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New equipment is S500K, rental is S200K per month Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut Down for .7 days Best Case: Complete Site Shut down for .7 days Best Case: Most Likely Case:Worst Case: Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Most Likely: Case: 10 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Best Case: 16 d	2.) Perform additional routine observations to the machines monitoring system so a maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on hand as availability allows. Provide additional monitoring for NDA	N/A 4, N/A 4, N/A 4, A5250 1, Continue to perform maintenance on equipment, keep spare parts on hand, and monitor data quality to verify systems are operating normally.	1/13/2022 6/8/2022	7/10/2023 None Graf, Jeffrey S 7/10/2023
TO3002R2 TO3005R2 TO3P2005a TRU007R2	Project Wide Project Wide Project Wide D.2.03.31.06	IEC IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Silobal Risk: Work Delay Due to Abnormal Weather Conditions Silobal Risk: Stop Work Due to External Events Line-Item Project Funding Line-Item Project Funding CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification CH-TRU Waste Disposition: Non-Destructive Assay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire Provide Assay Result for The Entire Pro	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor work of the contamination of the contamin	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site closure. External event(s) at other INI. locations other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope.	Open 1 Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely are Almost Certa	Serious Serious In Critical Major	3-Moderate 2-Low 5-Very High 3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 1,800 102	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wijning down subcontractor equipment 4 people @ \$50/hr. for 80 hours. Subcontractor equipment 4 people @ \$50/hr. for 80 hours. Subcontractor loss 3 weeks on other projects - cost @ \$100k per week Most Likely: Parts of the equipment must replaced equating to \$100k, and the subcontractor has delays on other projects in the subcontractor has delays on other projects. IEC personnel spend 2 weeks wijning down subcontractor equipment, erel equipment of both ours Worst Case: Subcontractor must replace the piece of equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month Best Case: Complete Site Shut Down for 1 day Worst Case: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 1 day Best Case: Most Likely: Complete Site Shut down for 1 day Best Case: Most Likely Case:Worst Case: Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Most Likely: 68 days x 10 hr /day x 2 people x \$75/hr. = \$10,200 Most Likely: 68 days x 10 hr /day x 2 people x \$75/hr. = \$10,200	2.) Perform additional routine observations to the machines monitoring system so a maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on hand as availability allows. Provide additional monitoring for NDA	N/A N/A A A A N/A A A A A A A A A A A A A	1/13/2022 6/8/2022 1/10/2024	7/10/2023 None Graf, Jeffrey S 7/10/2023
TO3002R2 TO3005R2 TO3P2005a TRU007R2	Project Wide Project Wide Project Wide D.2.03.31.06	IEC IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Silobal Risk: Work Delay Due to Abnormal Weather Conditions Silobal Risk: Stop Work Due to External Events Line-Item Project Funding Line-Item Project Funding CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification CH-TRU Waste Disposition: Non-Destructive Assay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire Provide Assay Result for The Entire Pro	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor work of the contamination of other means the RWMC, then both TRU and MLIW certification cannot be completed. This may result in the need for repeakaging of contamination of other means the contamin	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Contamination is identified. External event(s) at other INI. locations other DOS lates cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facilities, any crisis that is found at another facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope.	Open 1 Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely are Almost Certa	Serious Serious In Critical Major	3-Moderate 2-Low 5-Very High 3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 1,800 102	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely. Part of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects of 5100K, and the subcontractor has delays on other projects of 62 to 100K, and the subcontractor weeks on other projects of 63 to 64	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on hand as availability allows. Provide additional monitoring for NDA results, identify problematic waste, and results for an otification. Use does to Currie results for an otification. Use does to Currie results for an otification.	N/A N/A A A A N/A A A A A A A A A A A A A	1/13/2022 6/8/2022 1/10/2024	7/10/2023 None Graf, Jeffrey S 7/10/2023
TO3002R2 TO3005R2 TO3P2005a TRU007R2	Project Wide Project Wide Project Wide D.2.03.31.06	IEC IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Silobal Risk: Work Delay Due to Abnormal Weather Conditions Silobal Risk: Stop Work Due to External Events Line-Item Project Funding Line-Item Project Funding CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification CH-TRU Waste Disposition: Non-Destructive Assay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire Provide Assay Result for The Entire Pro	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DDE sites cause a stop wor be experienced as a direct result of variability in funding, limiting to execute base scope under the end state contract model will result in longer durations as direct result of wariability in funding, limiting to execute base scope under the end state contract model will result in longer durations required for each the desired end-states. This will increase the overall costs of the ldaho Cleanup Project (ICP), and coul impact staffing levels. If VMPP certified characterization equipment fails and can no longer trust, then CH TRU waste certification and shipment could be impacted. The equipment is older technology that is still in use. If NDA results, using ISOCs and all other available NDA equipment, we not provide valid assay results for the entire inventory of waste containers at the RWMC, then both TRU and MLIUE verification cannot be completed. This may result in the need for repackaging of waste containers at the Systility for the merter inventory of waste containers at the Systility for the merter inventory of waste containers.	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Extensive the conditions occur, based on historical precedents that would lead to Site closure. K. External event(s) at other INI. locations other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope. Identify the Contamination of the contaminati	Open 1 Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely are Almost Certa	Serious Serious In Critical Major	3-Moderate 2-Low 5-Very High 3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 1,800 102	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely. Part of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects of 5100K, and the subcontractor has delays on other projects of 62 to 100K, and the subcontractor weeks on other projects of 63 to 64	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on hand as availability allows. Provide additional monitoring for NDA results, identify problematic waste, and results for an otification. Use does to Currie results for an otification. Use does to Currie results for an otification.	N/A N/A A A A N/A A A A A A A A A A A A A	1/13/2022 6/8/2022 1/10/2024	7/10/2023 None Graf, Jeffrey S 7/10/2023
TO3002R2 TO3005R2 TO3P2005a TRU007R2	Project Wide Project Wide Project Wide D.2.03.31.06	IEC IEC IEC	Multiple CAMs Multiple CAMs Multiple CAMs	Multiple Projects Multiple Projects Multiple CAMs	Subcontractor Equipment Silobal Risk: Work Delay Due to Abnormal Weather Conditions Silobal Risk: Stop Work Due to External Events Line-Item Project Funding Line-Item Project Funding CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification CH-TRU Waste Disposition: Non-Destructive Assay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire Provide Assay Result for The Entire Pro	The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced. Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. External event(s) at other INL locations or DOE sites cause a stop wor work of the contamination of the contamin	the manufactures recommended operating hours are exceeded. Contamination is identified. Contamination is identified. Contamination is identified. Extensive the conditions occur, based on historical precedents that would lead to Site closure. K. External event(s) at other INI. locations other DOB sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. Impacts from line-item project funding y causes limitations that impact the execution of the base scope. Identify the Contamination of the contaminati	Open 1 Open 1 Open 1 Open 1	hreat Acc	ept Possible ept Unlikely are Almost Certa	Serious Serious In Critical Major	3-Moderate 2-Low 5-Very High 3-Moderate	\$ 500,000 \$ 500,000 \$ 1,000,000,000	\$ 1,000,000 \$ 1,000,000 \$ 1,350,000,000	\$ 7,000,000 \$ 7,000,000 \$ 1,700,000,000	0.5	1 1,350	7 7 1,800 102	Impacts to schedule on IEC activities will be minimal if any. Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ SSQ/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost @ \$100K per week Most Likely. Part of the equipment must replaced equating to \$100K, and the subcontractor has delays on other projects of 4 weeks @ \$100K per week and \$50K in delays on other projects of 5100K, and the subcontractor has delays on other projects of 62 to 100K, and the subcontractor weeks on other projects of 63 to 64	2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance. N/A N/A N/A Proposed Share to DOE Ensure/procure critical spare parts are on hand as availability allows. Provide additional monitoring for NDA results, identify problematic waste, and results for an otification. Use does to Currie results for an otification. Use does to Currie results for an otification.	N/A N/A A A A N/A A A A A A A A A A A A A	1/13/2022 6/8/2022 1/10/2024	7/10/2023 None Graf, Jeffrey S 7/10/2023

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Part	7/10/2023
March Marc	7/18/2023
Note	3 7/10/2023
Most Likely for darps x 10 Pr. (day \$1 Pr. for day	7/10/2023
Amonium Nitrate Changeover Martin, Oxid Ma	7/10/2023
Martin, David Parts Are Out of Compliance or Unavailable facility and project in need of constant repairs for continued obsolete to keep equipment operating. Almost Certain S \$50,000 \$5,000,000 \$1,	7/10/2023
D.2.03.31.06 Complete Potential Classified Document reviews, then reviews, then reviews of required Wastle Isolation Pilot Plant (WIPP) reviews.	7/10/2023
Most Likely: 206 days x 10 hr./day x 2 people x 575/hr. = sannual recertification audit. Most Likely: 206 days x 10 hr./day x 2 people x 575/hr. = sannual recertification audit. Most Likely: 206 days x 10 hr./day x 2 people x 575/hr. = sannual recertification audit.	7/10/2023
TRU043 D.2.05.30.19 IEC Zovi, Bruno Orme, Jason Orme,	7/10/2023

TRU049	D.2.03.36.04	IEC Vargesko, Matthew	Vargesko, Matthew Generated RCRA Waste	Resource Conservation and Recovery Act (RCRA) waste that is 1) Hij	igher priority scope causes this work Op	en Threat	Accept	Possible	Minor	2-Low	\$ 37,000	\$ 150,00	00 \$ 600	0,000 1	4	16 §3008(c): Violation of Compliance Orders	N/A	N/A	3/1/2024 No	e
				generated as part IEC operations must be shipped offsite within 1 year packa	age to not get funded. 2) IEC generated											If a violator fails to take corrective action within the time				
				of generation or IEC must provide documentation for wastes with no RCRA	A waste is not shipped in acceptable											specified in a compliance order, the Administrator may assess a				
				path to disposition. There is risk for funding to not be adequate for this time!	frame.											civil penalty of not more than \$37,500 for each day of				
				scope due to it taking lower priority. If this risk were to materialize, it												continued noncompliance with the order. In addition, the EPA				
				would affect shipments to commercial facilities (i.e. Energy Solutions												Administrator may suspend or revoke any permit issued to the				
				(ES), Waste Control Specialists (WCS), Perma-Fix Florida (PFF)).												violator (whether issued by the Administrator or the State).				
																If our RCRA permit is suspended or revoked, it takes quite some				
				If we fail to meet the one year to get rid of our New Gen RCRA waste,												time to get it back, more than likely 1-2 years. The costs				
				the DEQ (or EPA if superseded) will likely issue a compliance order,												associated with permit suspension/revocation are unknown				
				unless we can prove why we need to exceed the one year. It is not												above and beyond the daily costs of the penalty fees due to the				
				likely they will extend the one year for routine Newly Generated RCRA												large programmatic impact of such an event.				
				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 \$37,500 per day until																
				resolved. Not only will there be financial risk, but we also risk																
				suspension/losing our RCRA Permit(s) based on the following rule:																
				§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 a civil penalty of not																
				more than \$37,500 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.																



TO3 Phase 2 Risk Register

Updated: 5.9.24 Cost Impacts Schedule Impacts (in days) Handling Risk ID CAL015R Risk Owner IEC Risk Back-u Risk Title

Calcine: Delay finalizing the CSSF 3116 Basis Risk Description Trigger Event
nallizing the CSSF 3116 Basis Document may be delayed due to DDE- DOE-EM or NRC are not available to Strategy Likelihood Most Likely 100,00 Basis of Impacts Mitigation Actions EM and NRC resouce availabity to perform their reviews. Finalizing the perform their reviews as planned in the Ta ment due to availablity of DOE-EM and se resoucres from DOE-EM were unavailable (best case C to perform their reviews CSSF 3116 Basis Document is schedued to be completed at the end of Order 3 schedule. as assumed that project would realize the same delay fron Task Order 3: however, the project has already realized schedule (most likely case) and an additional 20-day delay for lelays because of unavailablity of resources to conduct their review seen circumstances as the worst case. Best Case - 20 day .0 hr/day X 2.5 FTE X \$100/hr = \$50KMost Likely Case - 40 t Case: 48 days X 10 hr. X 1.25 FTE X \$80/hr.
st Likely Case: 80 days X 10 hr. X 1.25 FTE X \$80/hr.
rst Case: 80 days X 10 hr. X 2 FTE X \$100/hr. CAL018R2 D.3.02.30.13 Major 3/12/2022 CalcineRET1: Loss of Specialty Resource: Equipment failure at the full-scale mockup post-erosion testing may cause unexpected costs and schedule delays. The purpose of the 103.1 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 Cost and schedule impacts are based on the possible scenarios of replacing single-point failure equipment on the full-scale mockup. Basis is estimated as follows: - Best Case - Replace cyclone and elbows (20 days of recision testing is complete, an outage will be performed to determine erosion testing is complete, an outage will be performed to determine - 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. owntime x 10 hr./day x 4 FTE x \$75/hr. plus 16 days to insta D.3.05.31.0 CalcineVIT: Lack of CPP-691 Documenta ck of existing or incomplete drawings. Lack of existing or incomplete CPP-691 documentation may create data gaps when updating drawings, performing field verifications, and validating a 3D model of the facility. This may impact the completeness of the Stiting Study where additional work will be necessary to fill the data gaps in order to have a complete siting study. CalcineVIT: Lack of CPP-691 Documenta ost and schedule impacts are based on additional field westigations @ CPP-691 requiring additional time and socurces. 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 CalcineVIT: Siting Study Fails to Identify The Siting Study will evaluate potential locations (existing and greenfield) near CSSF for a processing facility. It is possible a viable ocessing facility is not identified. Study with a new set of criteria and/or additional data. Basis is location to install a calcine processing facility at the INL Site is not identified or recommended (e.g., due to the outcome of a cost-benef - Best Case - Reassess Siting Study based on new criteria and 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 \$100/hr.) alcineVIT: Loss of Specialty Re CAL026 500,00 Kimbro, Val CalcineVIT: Equalize Vendor Work Performed Under BEA SOW. If it is determined the results are inadequate, the BEA SOW is determined to be Serious 1,000,0 Cost and schedule impacts are based on whether equalizing of e vendor work is required. Basis is estimated as follow - Best Case - Cost and schedule stay as planned and any then additional work by the vendors may be necessary. Scope is ncluded in TO3.2 to review vendor reports to determine their act will be managed internally by the project. CAL028 D.3.05.31.04 N/A CalcineVIT: Calcine S 200.00 as not been confirmed whether the available vendors can produce a simulant with the required chemical and licine simulant that will have the required chemical and physical operties for the treatment studies. The required chemical and studies. - Best Case - Vendor cost to retool \$100K and no impact to physical properties will be identified during the simulant study activi anned in FY 2023. - Most Likely Case - Vendor cost to retool \$200K and 1 mont - Worst Case - Vendor cost to retool \$400K and 2 months d IEC is bringing in vendors that are performing work under the BEA CAL029 D.3.05.31.05 Kimbro, Val CalcineVIT: Equalize Vendor Work Perform Under BEA Statement of Work (SOW) d IEC is bringing in vendors that are performing work under the BEA SOW. Scope to review vendor reports to determine their adequacy (100,000) ne vendor work is required. Basis is estimated as follow: and subsequently equalize the two new vendors with the current - Best Case - Equalization is minimal and the vendor is only established vendor is included in TO3.2. However, if the new vendor ired to produce documentation, resulting in \$2M under budget and 4 months ahead of scU6:V17hedule work is determined to be adequate, then planned scope to equalize ese vendors work may not be necessary. - Most Likely Case - Equalization is necessary but not at the level planned, resulting in \$1M under budget and 2 months ahead of schedule. - Worst Case - Cost and schedule stay as planned and any pact will be managed internally by project. 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 CalcineVIT: Optimize Using BEA Business Cost and schedule impacts are based on BEA supporting the available at BEA that are not readily ionships and Resource cope of work and having a positive impact on the schedule. example, BEA may have in-house specialist that could participate in - Best Case - 48 days x 10 hr./day x 4 FTE x \$225/hr Most Likely Case - 24 days x 10hr./day x 4 FTE x \$225/hr. view team on documents being produced under TO3.2 scope of rk, such as the siting study, treatment study reports, and the Worst Case - 8 days x 10 hr./day x 4 FTE x \$225/hr. -Worst Case - 8 days x 10 hr./day x 4 FTE x 5225/hr.

Cots 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 (16 days to identify and evaluate additional data x 10 hr./days 1 FTE x 575/hr. and 2 FTE x 5225/hr.)

Most Likely Case - Two month schedule delay and external analysist are required (32 days to identify and evaluate additional data x 10 hr./days x 15 FTE x 575/hr. and 2.5 FTE x 575/hr. work, such as the string study, treatments upty reports, and me Submitting a deliting petition has been determined to be a viable strategy to pursue and it is assumed the necessary information for a delisting pretition is sufficient after a preliminary review of the 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 tlash to DCQ and U.S. EPA may be delayed due to time required to fill CalcineVIT: Information is Insufficient to Prepare a Delisting Petition D.3.05.31.0 D.1.21.30.16 If DOE directs IEC to perform an Operational Readiness Review in addition to a Readiness Assessment, it would cause schedule delays to orior to releasing operations. Threat Major 680 000 1.030.000 2.060.000 4/23/2023 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. CC024 D.1.21.30.05 Biorn, Scott N/A Core Car: Circular Saw Requires Furthe Research and Development Beyond Circular saw DOE-ICPs not pass test objectives or acceptance criteria in Threat Accept Rare Critical 1,658,040 3,569,520 5,385,960 Best Case: 96 days X 10 hr. X 16.5 FTEs X \$96/hr. 4/23/2023 7/10/2023 Most Likely: 208 days X 10 hr. X 16.5 FTEs X \$96/hr. (+\$274,800) Vorst Case: 314 days X 10 hr. X 16.5 FTEs X \$96/hr. (\$412,200 addition there is a need for contract extension of 2.900/month CC300 D.1.21.30 Biorn, Scott Biorn, Scott Engineering/Safety Analysis Determines C Cannot be Safely Removed From RSC or esign/Safety analysis determines the core cannot be safely rem Completion of drop/safety analysis reveals scenario(s) that result in unacceptable risk 5,120,000 7,000,000 8,000,000 Add mechanically fasten to boration to On 2/17/23 NNL notified IEC engineering of a concer from the RSC and transported to the laydown station without the core can be safely moved from the RSC to that will require an alternative core handling strategy with additional engineered controls. If the core drop ive modifications to the equipment/pool/process the lay down system and safely processed analysis determines additional controls are required safely remove the core from the RSC and transfer it to the laydown system, this risk will be realized. Cost and schedule impacts will be dependant upon analysis re and the new strategy/controls required to move the impacts to Railcar/shipping shield/RSC prior to the eed HAD Limits could indicate water inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of the RSC will be required, place at CPP-666. arrival of the railcar. entially requiring a purge of the RSC to meet HAD requirement RSC sampling will require removal of the shipping shield lid.) equired by drop analysis address this risk. Existing CERCLA Evaporation liner tears which would require subcontractor support to complete repairs. No schedule delays as all othe while repairs are done. Allocation for repairs for material failure of the pond linear, similar to currently existing CERCLA: Evapor 4/23/2023 7/10/2023

ICDF002	D.4.05.31.03	IEC Or	rme, Jason	Zovi, Bruno	CDF Ops and Maintenance: Treatment,	Treatment, Storage, and Disposal Facility (TSDF) is unable to receive waste, transportation of that waste will be delayed. It may then	TSDF discontinues receiving of waste.	Open Threat	Mitigate	Likely	Minor	2-Low \$	79,200	\$ 118,800	\$ 158,40	00 8	12	16	Best Case: 8 days x 10 hr/day x 6 FTEs X (\$110/hr. + OT = Implement the following possible mitigations: N/A	4/23/2023	7/10/2023
				:	torage, and Disposal Facility (ISDF) Closure	waste, transportation of that waste will be delayed. It may then become necessary for the project to incorporate actions to recover schedule.													\$165/hr.) - Upon TSDF resuming operations, 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.)		
ICDF003	D.4.05.31.04	IEC Or	rme, Jason	Zovi, Bruno	CDF Ops and Maintenance: Waste Container	During the verification process, if a waste container(s) is found to not	A container(s) is identified as damaged,	Open Threat	Mitigate	Likely	Minor	2-Low \$	54,000	\$ 81,000	\$ 108,00	00 4	6	8	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$75/hr.+OT = Implement the following possible mitigations: N/A	4/23/2023	7/10/2023
					Freatment, Storage and Disposal Facility TSDF) Certification Failure	be in accordance with the NNSSWAC, the waste will need to be reworked.	packaged incorrectly, containing uncertified waste, containing prohibited items, etc.												\$112.50/hr.) Most Likely Case: 612 days x 10 hr./day x 6 FTEs x (\$75/hr. + 0T = \$112.50/hr.) to recover schedule.		
																			Worst Case: 16 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT = \$112.50/hr.)		
INDRP001	K.1.03.03.08	IEC Hen	nry, Jennifer F	Henry, Jennifer	Radiation Protection: Spare Rad Instrument	IEC has several cargo containers at the projects that are filled with old radiological instruments. The instruments are currently being kept for		Open Threat	Accept Aln	nost Certain	Critical 5-	-Very High \$	1,500,000	\$ 3,000,000	\$ 5,000,00	0 0	0	0	Best Case: they only require a dispose of current inventory of sparses Most Likely: require disposal of current sparses and	9/11/2023	9/18/2023
				ľ		use as spare parts to keep instruments running until older units can be replaced. Once old instruments are replaced, the spare instruments													spares that come from current projects such as ARP.Worst Case: require disposal of current spares and spares that come		
						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													from current projects such as ARP. Additionally there would be demo on some buildings as there would be removal in some		
						project is directed to dispose of the spare instruments under strict disposal timelines, the amount of spares to be disposed of could													incenturis.		
						potentially raise a need to become its own identified work scope with specific allocated resources to complete the work.															
INTEC011R2	D.3.03.32.02	IEC Bai	aisch, Kasey	Baisch, Kasey		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	due to prolonged exposure to harsh outdoor		Accept	Possible	Minor	2-Low \$	250,000	\$ 545,600	\$ 2,578,00	00 48	96	160	Best Case- transformer fails on double end fed piece of equipment so cost to replace is the materials only of 250k. Most Likely - transformer failure which causes partial building	3/20/2022	7/10/2023
						affected facility due to a lack of electrical power.	maintenance.												outage (CPP-659) for duration of the time it takes to get a new transformer. MAT'L COST 200k LABOR COST: 96 days X 12		
																			hr./day X 3FTE X \$100/hr. Worst Case: Transformer failure includes need to replace feeder breakers also and results in loss of 1/2 of CPP-666 for duration of the time it takes to get		
																			transformer, breakers, and time to install. MAT'L COST: 750K, LABOR COST: 160 days X 12 hr./day X 9 FTE X \$100/hr.		
INTEC037R2	D.3.03.38.06	IEC Wilco:	ox, Christopher	Wilcox,	NTEC Miscellaneous Paving: Excavation	Excavation reveals unidentified objects and/or utilities resulting in a	An unknown utility or object is discovered	Open Threat	Mitigate	Unlikely	Minor	2-Low \$	8,000	\$ 8,000	\$ 96,00	00 1	1	12	DISPLACED WORKER COST: 100K Based on work history of similar projects for number of Check weather before hand and have possible	3/20/2022	10/9/2023
				Christopher	Uncovers Unanticipated Objects	stop work to determine a any additional remediation prior to proceeding with excavation.	during excavation.					210						10	FTEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/hr weather shelters nearby or on site for emergencies		
INTEC038R2	D.3.03.38.06	IEC Wilco:	ox, Christopher		NTEC Miscellaneous Paving: Clay Layer Discovered 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.		Open Threat	Accept	Possible	Minor	z-Low S	8,000	\$ 8,000	\$ 32,00	~ 1		16	Based on work history of similar projects for number of FTEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/hr fimiliar and trained to use the equipment provided.	3/20/2022	10/9/2023
INTEC041R2	D.3.03.38.09	IEC Klu	ukis, Venita		NTEC Distributed Control System Upgrades: DCS 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	Outdated DCS equipment fails upon use.	Open Threat	Mitigate	Possible	Critical	4-High \$	232,000	\$ 264,000	\$ 296,00	90	150	270	In house design delay can be an issue, It will take six weeks to source the job to outside engineering company just to be equipment and replace them first.	3/20/2022	10/9/2023
						currently operated system are not readily available as it is an outdated system.	1												awarded, plus designing period, that would cost three months delay on the job. Plus extra cost to the out outside company to complete the design. For activity \$1030 and 1050 the \$50Ws are		
																			in approval status and it has been quoted that the costs of both risks combined will be \$200,000K. The supply chain issue to get		
																			the material is 82 days. So best case is \$200 Kt 90 days. The other 2 risks 1010 and 1040 are based on labor from our software engineers. Those risks combine for a total of 16 Days		
																			X 10 hour X 2 FFEx S 5100+532,0032X 10 X 2 X \$100+564,00048 X 10 X 2 \$100+596,000		
INTEC045R2	D.3.03.38.07	IEC Mi	liller, Zeena	Miller Zeena	NTEC CPP-666 Anex HVAC Upgrades:	The risk of asbestos being discovered during demo and	Asbestos was discovered during demolition	Open Threat	Mitigate	Possible	Moderate	2-Low S	112,000	\$ 224,000	\$ 336,00	00 14	28	42	Since demo is proposed to be completed by force account, this lssue a work order early on the process to test	3/20/2022	10/9/2023
INTECOSTIE	5.5.65.36.67		mer, zeend		Discovery of Asbestos	installation requires additional controls.	and installation.	open muca	Williagute	1 OSSIDIC	Woderate	7	112,000	224,000	330,00				will reduce our cost of treating asbestos (trained staff). At this point it is proposed to be probably two weeks of working days	3/20/2022	10/3/2023
																			delay, Plus expenses, - 14 days X 10 hr/day X 8 FTE X \$100/hr/28 days42 Days		
INTEC059R2	D.3.03.39.02	IEC Lo	ords, Darin	Lords, Darin	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.	Failure of the INTEC ECS which stops the fire panel conversion work progress and testing.	Open Threat	Accept	Unlikely	Serious	2-Low \$	30,000	\$ 180,000	\$ 270,00	30	60	90	Best - 30d x 10 h/d x 1fte x 100/hr = 30,000 Lik - 60d x 10h/d x 3fte x 100/hr = 180,000 Wo - 90d x 10h/d x 3fte x 100/hr = 180,000 Wo - 90d x 10h/d x 3fte x 100/hr = 270,000	3/20/2022	10/9/2023
INTEC060R2	D.3.03.39.02	IEC Lo	ords, Darin		BEA reprograming was not completed in a	Required BEA reprograming at the Central Fire Station for each ECS panel conversion is not completed in a timely manner.	BEA does not reprogram and work to test system is suspended.	Open Threat	Accept	Unlikely	Moderate	2-Low \$	14,000	\$ 90,000	\$ 120,00	00 14	30	60	Best - 14d x 10 h/d x 1fte x 100/hr = 14,000 Lik - 30d x10h/d x3fte x 100/hr = 90,000 Wo - 60d x 10h/d x 2fte x 100/hr Have early communications with BEA and have needed necessary documentation in	3/20/2022	10/9/2023
					imely manner.														=120,000 place to allow coordination between IEC and BEA for needed programing.		
INTEC067R2	D.3.03.3C.02	IEC How	vell, Jonathan Ho	owell, Jonathan	NTEC Crane Upgrade: Materials costs exceed estimates.	Material price points in DCES are considered a ROM estimate and have no basis of estimate. Controller, hook, and linear actuator lead	Supplier response to RFQ.	Open Threat	Accept	Likely	Moderate 3-	-Moderate \$	375,000	\$ 500,000	\$ 625,00	0 0	0	0	Received budgetary quote from PaR for controller system that is \$4000 per crane and DCES currently has \$15000 per crane.	7/25/2022	10/9/2023
						times are unknown.													Used difference between values for the Most Likely case and then adjusted 25% both ways to arrive at the Worst Case and Best Case values		
INTEC068R2	D.3.03.3C.02	IEC How	vell, Jonathan Ho	owell, Jonathan	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 Threat	Mitigate	Likely	Minor	2-Low \$	16,500	\$ 41,250	\$ 82,50	0 0	0	0	Previous quote from 2008 for similar work was \$1200 which escalates to \$165k in today's dollars. Worst Case assumes we increase cost by \$0%, Most Ukley assumes we increase cost by	7/25/2022	10/9/2023
																			25%, and Best Case assumes we increase cost by \$10%. This activity is not on the project critical path and is not expected to		
INTEC069R2	D.3.03.3C.02	IEC How	vell, Jonathan Ho	owell, Jonathan	NTEC Crane Upgrade: CPP-603 Operations	INTEC Crane Upgrade must be started and completed between higher	The project is not complete prior to the	Price Option Threat	Mitigate Aln	nost Certain	Minor	4-High \$-	-	\$-	\$-	8	16	32	adversely impact project schedule so no durations were inputted. Worst case assumes we are ready to begin work when ATR wet. Project will work to prioritize activities to	4/11/2023	7/10/2023
					mpacts	priority operational evolutions to ensure that the necessary personnel and equipment are available.			-										to-dry shipments are starting. The other cases assume we do not have as much schedule overlap. No cost impact is shipments.		
INTEC070R2	D.3.03.3C.02	IEC How	vell, Jonathan Ho			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 Threat	Mitigate	Unlikely	Moderate	2-Low \$	30,000	\$ 60,000	\$ 101,25	50 16	32	54	associated with this risk. Best Case accounts for a minor adjustment to existing drawing and work package only. Likely Case assumes that and a new, supplier will be required to design within the	7/25/2022	10/9/2023
																			minor infrastructure installation which would drive material procurement. Worst Case assumes that, and rework to existing infrastructure. Under the control of project historicals and		
																			mini as tractine, but alone are eased on project instoncts and then costs were calculated using typical crew size for this type of work.		
INTEC071R2	D.3.03.35	IEC Ir	Inns, Ryan	Inns, Ryan	NTEC Utility Tunnel: Specialty Subcontractor	Specialty contractor, who would be required to support training, oversight, inspection, or testing forth Utility Tunnel Upgrades is not	Identified contractor identifies availability issues that impact the project schedule.	Price Option Threat	Mitigate	Possible	Minor	2-Low \$	12,000	\$ 48,000	\$ 144,00	00 4	16	48	Best Case: 4 days x 10 hrs./day x 4 people x 575/hr. = \$12,000 Schedule contractor early. Most Likely: 16 days x 10 hrs./day x 4 people x 575/hr. =	4/11/2023	7/10/2023
						available.													\$48,000 Worst Case: 48 days x 10 hrs./day x 4 people x \$75/hr. = \$144,000		
INTEC072R2	D.3.03.35	IEC Ir	Inns, Ryan	Inns, Ryan	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 Threat	Mitigate	Possible	Minor	2-Low \$	12,000	\$ 48,000	\$ 144,00	00 4	16	48	Best Case: 4 days x 10 hr /day x 4 people x 575/hr. = \$12,000 Schedule contractor early. Most Likely: 16 days x 10 hr /day x 4 people x 575/hr. = \$48,000 Schedule contractor early.	4/11/2023	7/10/2023
																			Worst Case: 48 days x 10 hr./day x 4 people x \$75/hr. = \$144,000		
INTEC076R2	D.3.03.3D.02	IEC Ke	elly, Patrick	Kelly, Patrick	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 Threat	Accept	Rare	Minor	1-Low \$	276	\$ 2,210	\$ 4,41	19 1	2	3	Best Case: \$276.19 subcontractor cost for each facility. Most Ukely: 4 facility audits per day =51104.76 2 day delay =	4/11/2023	7/10/2023
INTEC077R2	D.3.03.38.10	IEC Wilco:	ox, Christopher	Wilcox, Christopher	.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 Threat	Accept	Possible	Major	4-High \$	43,525	\$ 87,051	\$ 174,10	02 54	66	91	\$2209.52 Worst Case: 4 day delay = \$4419.04 Worst case assumes all lights were installed and would require replacement. Cost per light is \$220, cost per shoebox is \$290,	11/17/2022	10/9/2023
																			and cost to support removal and installation is estimated to be \$160K. Schedule impact worst case was found by reusing initial		
																			project durations for work order development, part procurement, and light installations. Most Likely values were found by assuming 50% of lights would need to be		
INTECOTORS	D 3 D2 20 10	IEC War	w Christopho-	NAGI	Marto in Call 216 Presents Inc.	The waste currently in Coll 315 will kinds at 1 at 1 at 1 at 1	The upper lights	Onen Th	Mitigato	Likely	Critical	None High		4	•	1	120	100	removed/replaced while Best Case assumed 25%	11/47/2022	10/9/2023
INTEC078R2	D.3.03.38.10	IEC Wilco:	ox, Christopher		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 Inreat	Mitigate	Likely	Critical 5-	very riigh \$	-	-	_	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 Waste installation, most likely is based off of completing the waste Laadout to complete.	11/17/2022	20/2/2023
																			load out by end of FY23, and worst case estimates the waste loadout is completed by 1/2023		
		l .		-		•	•									•		•		•	

INTEC080R2	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 Threat	Accept Poss	ible Moderate	2-Low	\$ -	\$ -	\$ -	10	20	40	Work is being performed by subcontractor so, minimal cost will be realized if materials are delayed but the scheduel will be			1/17/2022	10/9/2023
INTECO82	D.3.03.32.03	IEC Hamilton, Rob	N/A	INTEC 902 Crane Repair: Crane 902 Rail Repairs Delays New Crane Install	Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved.		Open Threat	Accept Poss	ible Moderate	2-Low	\$ 140,000	\$ 280,000	\$ 500,000	0	0	16	negatively impacted. Most likely scenario is a delay in the vendors supply-thain. Best Case: PPE costs-\$18000 (\$500/entry/person) per week. Straight time for union workers - 8 days X 10 hr./day X 9 FTEs X \$50phr. overtime for union workers - 4 days X 10 hr./day X 9 FTES X FTES X 990/hr. Exempt personnel - 12 days X10 hr./day X 3 FTES X 575/hr. = \$140,000.		Work OT to recover schedule slip later once the paperwork is approved to install the crane	4/23/2023	7/18/2023
																	No schedule impact since taking action prior to installation of crane. Most Likely Case: PPE costs-\$18000 per week. Straight time for union workers - 16 days X 10 hr./day X 9 FTEs X \$60/hr. overtime for union workers - 8 days X 10 hr./day X 9 FTEs X				
																	\$90/hr. Exempt personnel - 24 days X 10 hr./day X 3 FTEs X \$75/hr. \$280,000. No schedule impact since taking action prior to installation of crane.				
																	Worst Case: No overtime allowed causes schedule impact of 16 work days since it would delay the crane install. PPE costs- 518000 per week. Straight time for union workers - 32 days X 10 hr./day X 9 FTEs X \$60/hr. Exempt personnel - 32 days X 10 hr./day X 3 FTEs X \$75/hr.= \$500,000.				
INTEC083	D.3.03.32.03	IEC Baisch, Kasey	Baisch, Kasey		During the remote design of the crane, the cable reel and bridge motor were changed to meet the required clearance tolerances. It may be discovered that the cable reel and/or bridge motor tolerances do not allow for proper operation of the crane due to interference with the west wall in the PaR parking area of the cell.	Installation of the crane.	Open Threat	Accept Ra	re Moderate	1-Low	\$ 56,500	\$ 88,450	\$ 161,100	20	22		Best Case: Assuming maintenance can access cable reel and bridge motor, it will take 1 month for ACECO engineers design changes which we will not pay for due to warranty. 1 week for maintenance to fix equipment per engineering design. Craft 4 days X10 hr./day X 9 FTEs X 560/hr. Exempt personnel 4 days X	N/A		/23/2023	7/18/2023
					with the west wall in the Pak parking area of the ten.												udgy X 10 III / Udg X 3 F 1 EX X 500 JIII . Exempt personnen 4 udgy X 10 In / ddg X 3 FEE X \$75 / hr. PPE cost \$21,500 = \$56,500 tilkely Case: 1 month for ACECO engineers design changes which we will not pay for due to warranty. 1 week for maintenance to fix equipment per engineering design. Craft 4				
																	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 days x 10 hr./day X 1.5 OT rate X 9 FTEs X 60/hr. Exempt personnel 2 days OT X 10 hr./day X 1.5 OT rate X 3 FTEs X				
																	\$75/hr.=\$22950.00 + 9000.00. PPE +56500.00 =\$88450. Worst Case: 6 weeks for engineering design. 2 weeks with overtime = Straight time - Craft 8 days X 10 hr./day X 9 FTEs X \$60/hr. + 4 OT days X 10 hr./day X 1.5 OT rate X 9 FTEs X \$60/hr. = \$75600.00. Exempt - 8 days 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.= \$31500.00 + 75600.00 = \$107100.00 + PPE \$54000 = \$161,100.00				
INTEC137	03.3A.05D.3.03.3/	IEC Wilcox, Christopher	Wilcox, Christopher	INTEC Firewater System: Materials Procurement Delays	Materials are delayed or not available as scheduled.	Materials are backordered or have excessive lead times.	Open Threat	Accept Poss	ible Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,000	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.	N/A		/11/2023	7/10/2023
INTEC138	03.3A.05D.3.03.3A	IEC Wilcox, Christopher	Wilcox, Christopher	INTEC Firewater System: Equipment Lease/Procurement Delays	Equipment delayed or not available as scheduled.	Equipment is backordered or has excessive lead times.	Open Threat	Accept Poss	ible Minor	2-Low	\$ 45,000	\$ 60,000	\$ 120,000	12	16		X 5 FTEs X \$75/hr. 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. X 5 FTEs X \$75/hr.			/11/2023	7/10/2023
INTEC211	D.3.03.32.01 D.3.03.32.02	IEC Hamilton, Rob	N/A	BOP PM: Failure to Follow Process Steps and/or Expectations Results of Major Noncompliance Issue	In the event that the project experiences a major noncompliance issue it could result in additional resources required, changes to work control, additional training required, etc.	e, A Major Noncompliance event occurs.	Open Threat	Accept Lik	ely Major	4-High	\$ 250,000	\$ 500,000	\$ 1,000,000	48	96	192	X S F1EX X5/5/fr. Cost of subcontract mentors, cost to refurbish program, cost for retraining.	N/A	Apply additional outside oversight to ensure we are following process steps and expectations	5/18/2023	7/10/2023
INTEC212	D.3.03.30.04	IEC Baisch, Kasey	Baisch, Kasey	BOP CM: Critical Legacy Equipment Failure	INTEC utilizes many pieces of legacy equipment, such as: cranes, overhead doors, transformers, etc. legacy equipment has the potential of failing due to the nature of its age. Unforeseen equipmen failure can cause unscheduled outages to repair and turn the equipment back over to operations.	Equipment fails.	Open Threat	Accept Almost	Certain Critical	S-Very High	\$ 500,000	\$ 1,000,000	\$ 2,000,00	96	192		616 compressor replacement actuals, potable water wiring actuals, 1647 piping actuals, cathodic protection replacement actuals.	N/A		/18/2023	7/10/2023
INTEC221	D.3.03.3F.06	IEC Lords, Darin	N/A	CPP-606 Vulnerabilities Upgrades: Weather Delays Power Conductor Testing and Installation	During the performance of the conductor testing for the deep well installation, severe weather could cause a delay, increasing the time needed to complete the testing.	Severe Weather.	Open Threat	Accept Ra	re Minor	1-Low	\$ 30,000	\$ 45,000	\$ 60,00	8	12		Best Case: 8 days X 10 hr. X 5 FTEs X \$75/hr. Most Likely: 12 days X 10 hr. X 5 FTEs X \$75/hr. Worst Case: 16 days X 10 hr. X 5 FTEs X \$75/hr.	N/A	N/A	7/28/2022	7/10/2023
INTEC222	D.3.03.3F.06	IEC Lords, Darin	N/A	CPP-606 Vulnerabilities Upgrades: Conductors Cable Fails	While testing of deep well power conductors, the cable fails the testing criteria, thus, having to be replaced.	Failed test.	Open Threat	Accept Ra	re Major	2-Low	\$ 94,500	\$ 171,000	\$ 274,50	42	76		Best Case: 42 days X 10 hr. X 3 FTEs X \$75/hr. Most Likely: 76 days X 10 hr. X 3 FTEs X \$75/hr. Worst Case: 122 days X 10 hr. X 3 FTEs X \$75/hr.	N/A	N/A	7/28/2022	7/10/2023
INTEC223	D.3.03.3F.06	IEC Lords, Darin	N/A	<u>CPP-606 Vulnerabilities Upgrades:</u> Cable Connectors Damaged	During connector tie-in evolution of the Deep Well power conductors there is potential a connector kit could become damaged and new kitt have to be installed or be replaced.		Open Threat	Accept Ra	re Minor	1-Low	\$ 60,000	\$ 75,000	\$ 135,000	12	16		Best Case: 12 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials	N/A	N/A	7/28/2022	7/10/2023
INTEC224	D.3.03.3F.06	IEC Lords, Darin	N/A		During the tugger/pulling evolution of the conductors, the conductor becomes wedged and will not continue into conduit.	Cable will not pull into new conduit.	Open Threat	Accept Ra	re Minor	1-Low	\$ 95,000	\$ 110,000	\$ 170,000	12	16	32	Worst Case: 32 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials Best Case: 12 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in materials	N/A	N/A	7/28/2022	7/10/2023
				Stuck in Conduit													Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in materials Worst Case: 32 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in				
INTEC300	D.3.03.3A	IEC Wilcox, Christopher	Wilcox, Christopher		n Per SPC-2879 (Section 3.3 - E.), Backfill compaction is required to be a 95% maximum density and will be tested once complete. Insufficient backfill testing results will require correction prior to asphalt installation.	t Fail backfill compaction testing on test sites.	Open Threat	Accept Poss	ible Minor	2-Low	\$ 32,000	\$ 128,000	\$ 256,000	4	16		materials fail Backfill Testing per SPC-2879 of 95% compaction on completed compacted test sites.	Accept compaction and ensure compaction for asphalt meets 95% prior to asphalt?	Prior backfilling activities are acceptable as is and project can proceed forward.	3/1/2024	3/1/2024 The workorder did not call out testing for backfill lifts to meet 95% compaction per 96/2879. Force Account backfilled in the same manner to a chieve 95% compaction, but no testing was performed on the project for backfilling activities.
																					Based on work history for number of FTE Estimated values are: # Days x 10 hr/day x 8 FTE x \$100/hr.
INTEC301	D.3.03.38.07	IEC Wilcox, Christopher	Wilcox, Christopher	INTEC CPP-666 Annex HVAC Upgrade: Subcontractor Delays	Insufficient resources to complete HVAC Upgrade until later date.	Subcontractor resources are not available to perform HVAC Upgrade.	Open Threat	Accept Lik	ely Minor	2-Low	\$ -	\$ -	\$ -	8	16		Subcontractor for project and the subs under contract sub are working at MFC and had their completion date moved forward on them into the time we had the subs scheduled for our project.		We can work parts of the workorder in preparation for the final work scope to be completed when manpower is available.	3/1/2024	3/1/2024 Subcontractor still working their side to see if both projects can work concurrently.
INTEC302	D.3.03.39.02	IEC Kelly, Patrick	Kelly, Patrick	Design from Subcontractor Inadequacies	Initial Design from subcontractor DOE-ICPs not conform with field conditions requiring additional work on drawings to be able to move forward with the work.		Realize Threat	Accept Almost	Certain Moderate	4-High	\$ 175,000	\$ 230,000	\$ 350,000	24	32	48	As of now the only impacts would be to schedule,	Project Manager will work ahead of the work control to try to remain on top of the issue.	4	3/1/2024	3/1/2024
INTEC303	D.3.03.3A	IEC Wilcox, Christopher	Wilcox, Christopher	Potential Soil Sampling	There is a possibility of additional unforeseen soil sampling/testing to occur on the excavated dirt that needs to be disposed of at ICDF. Depending on results of the sampling it could introduce additional	Testing reveals need for additional disposal requirements.	Open Threat	Accept Ra	re Minor	1-Low	\$ 25,000	\$ 70,000	\$ 100,000	8	16	26		N/A		3/1/2024	3/1/2024
IT004	D.6.02.38.01	IEC Anderson, Jade	N/A	Information Technology: Subcontractor Availability	disposal requirements. Subcontractor availability (wheeler electric, Leverage) preference and availability.	Preferred subcontractor is unavailable.	Open Threat	Mitigate Ra	re Serious	2-Low	\$ 216,000	\$ 576,000	\$ 1,296,000	24	64		Best Case: 24 days x 10 hr /day x 4 FTEs x \$225/hr.= \$216,000 Most Likely: 64 days x 10 hr /day x 4 FTEs x \$225/hr.= \$576,000 Worst Case: 144 days x 10 hr /day x 4 FTEs x \$225/hr.= \$1,296,000		. N/A	4/23/2023	7/10/2023
IT010	D.6.02.36.01,.04- .07	IEC Anderson, Jade	N/A	Information Technology: Software Upgrade	s Scheduling testing for software upgrades (ARB risk assessments for Cyber and IT) - Derogatory information discovered during risk	Discovery of derogatory information.	Open Threat	Mitigate Unli	kely Minor	2-Low	\$ 18,000	\$ 72,000	\$ 288,000	4	16	64	Best Case: 4 days x 10 hr./day x 2 FTEs x \$225/hr.= \$18,000 Most Likely: 16 days x 10 hr./day x 2 FTEs x \$225/hr.= \$72,000	Perform preliminary assessment to locate an vulnerabilities and adjust coding as necessar	y N/A	4/23/2023	7/10/2023
					assessment, or software vulnerabilities discovered render software or hardware item unfit for use at ICP.												Worst Case: 64 days x 10 hr./day x 2 FTEs x \$225/hr.= \$288,000				
IT012	D.6.03.32.01	IEC Anderson, Jade	N/A	Information Technology: Sourcing Hardwar	 Due to supporting legacy and aging systems needed for on-going operations, items needed may be discontinued by the manufacturer. Cannot locate items that are of limited supply. 	Cannot source Hardware.	Open Threat	Accept Poss	ible Serious	3-Moderate	\$ 216,000	\$ 576,000	\$ 1,296,000	24	64		Best Case: 24 days x 10 hr./day x 4 FTEs x \$225/hr.= \$216,000 Most Likely: 64 days x 10 hr./day x 4 FTEs x \$225/hr.= \$576,000 Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$1,296,000	N/A	N/A	4/23/2023	7/10/2023

IT013	D.6.02.38,39,41 D.6.03.32	IEC Anderson, Jade	N/A	Information Technology: Unforeseen Technical Issues	Unforeseen technical issues or major failures can impact the planned ssues or schedule, e.g., ransomware.	major failures occur. Open	Threat	Accept Po	ossible Critic	cal 4-H	High \$ 320,	960,	00 \$	1,920,000	40 12	20 24		: Case: 40 days x 10 hr./day x 4 FTEs x \$200/hr.= \$320,000 N/A t Likely: 120 days x 10 hr./day x 4 FTEs x \$200/hr.=	N/A 4/23/2023	7/10/2023
	D.6.03.33 D.6.02.34 D.6.02.35.01																\$96 Wor	0,000 st Case: 240 days x 10 hr./day x 4 FTEs x \$200/hr.= 20,000		
	D.6.02.35.01																\$1,5	20,000		
IT306	D.6.02.35	IEC Anderson, Jade	Anderson, Jade	Refresh.	Due to the unforeseen issues with the planned subcontractor for this work scope, the contract has been cancelled. This may require internal resources to perform the work as well as purchase of additional equipment in stock	s a delta between	Inreat	Mitigate Almos	st Certain Majo	or 5-ver	y High \$ 800,	1,400,	00 \$	300,000	48 9	96 13	Refr		purchased and equipment needed to complete the	3/1/2024 Toward the end of TO3P1, the subcontractor for this project presented us with a BOM for additional equipment to complete this project worth ~\$3M. This
					equipment, increasing unplanned costs.													additional money to complete equipment purchases.		cost was not planned in TO3P2. The IEC IT staff estimates this equipment cost to actually be $^{\sim}$ \$1.4M.
NICDF009	D.4.06.39.01	IEC Reese, Craig	N/A	ICDF Cell 3: Lack of Construction or Excavation Resources Due to Competing	As the construction begins, the resources may be unavailable due to other construction activities taking place. Therefore, earthmoving to provide equipme	ent and/or qualified labor	Threat	Accept Li	Likely Moder	rate 3-Mod	derate \$ 100,	100 \$ 500,	00 \$	1,250,000	10 1	10 1	\$5N	1	N/A 9/21/2022	7/10/2023
				Projects or Priorities	equipment and labor resource may not be available. to complete the sco schedule.	ope and maintain											.1 X	t Likely Case: 10 days (10% increase in subcontract cost) = \$55M \$1 Case: 10 days (25% increase in subcontract cost) = .25 X		
NICDF010	D.4.06.38.02	IEC Reese, Craig	N/A	ICDF Cell 3: Funding Constraints May Impact the Acquisition Strategy	Due to the Project Data Sheet having funding over several fiscal years, Contractors annual a contract for the entire construction FFP cannot be awarded. The		Threat	Accept R	Rare Critic	cal 3-Mod	derate \$ 1,000,	100 \$ 5,000,	00 \$ 2	20,000,000	10 2	20 4	40 Best \$5N	Case: 10 days (2% increase in subcontractor cost) = .2 X N/A	N/A 9/21/2022	7/10/2023
					strategy is to award a partial contract for each FY and have the contractor provide a FFP each year. If price of the FFP cannot be	,											1 X :	t Likely Case: 20 days (5% increase in subcontractor cost) = 55M		
NICDF014	D.4.06.37.05	IEC Reese, Craig	N/A	New ICDF Cell Definition: Excavation	negotiated, a new RFP may be required. Excavation during the winter months may require the contractor to Excavation become:		Threat	Accept Li	Likely Mino	or 2-L	Low \$ 60,	100 \$ 240,	00 \$	720,000	4 1	16 4	48 Best		N/A 9/21/2022	7/10/2023
				Activities Halted	double handle material. temperatures and s	subsequent frost line.											Mos Wor	tt Likely Case: 16 days X 10 hr./day X 20 FTEs X \$75/hr. st Case: 48 days X 10 hr./day X 20 FTEs X \$75/hr.		
NICDF015	D.4.06.3B.01	IEC Reese, Craig	Reese, Craig	Funding Availability for Purchasing Geosynthetics	CD-3B DOE-ICPs not get approved for early procurement of the necessary Geosynthetics prior to the construction needs in early FY24. account for long learners are the construction needs in early FY24.		Threat	Accept Po	ossible Mino	or 2-L	\$ (1,350)	(450,	00) \$	(75,000)	-90 -3	30 -	Case	st Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely 8: 30 days X 10 hrs/dy X 20 FTEs X \$75/hrBest Case: 90 days hrs/dy X 20 FTEs X 575/hr	3/1/2024	3/1/2024 Purchase geosyntethic material early to reduce subcontractor markups and escalation of materials. Subject to FY24 funding availability/approval.
NICDF018	D.4.06.38.02	IEC Reese, Craig	N/A		materials. HSQA is discussing the possibility of requiring the use of respirators HSQA requiring respirators	spirators. Open	Threat	Accept Po	ossible Mino	or 2-L	Low \$ 60,	100 \$ 240,	00 \$	1,440,000	4 1	16 9	96 Best	: Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr. N/A	N/A 9/21/2022	
				Requires Respirators	when working with Bentonite which could impact the approach to the work being performed.													t Likely Case: 16 days X 10 hr /day X 20 FTEs X \$75/hr. st Case: 96 days X 10 hr /day X 20 FTEs X \$75/hr.		
NICDF020	D.4.06.37.05	IEC Reese, Craig	N/A	New ICDF Cell Definition: Excavation Uncovers Unanticipated Materials	While doing excavation there is a chance of unforeseen circumstances (i.e., rad contamination) to occur that can cause a delay in the schedule or a need to assess a new path forward. Un-identified utilitii		Threat	Accept R	Rare Mino	or 1-L	S 30,	100 \$ 75,	00 \$	1,200,000	2 5	5 8	Mos	Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. t Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. st Case: 80 days X 10 hr./day X 20 FTES X \$75/hr.	N/A 9/21/2022	7/10/2023
	240	150		N. 19950 N. 9. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	Rad contamination Archaeology artifac	cts							20 4	200.555					N/4	7(10/202)
NICDF021	D.4.06.34.05	IEC Reese, Craig		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. "Estimate to Complabove \$100M.				Rare Mino				00 \$		2 5		Mos Wor	Case: 2 days X 10 hr./day X 20 FTES X 575/hr. t tikely Case: 5 days X 10 hr./day X 20 FTES X 575/hr. st Case: 20 days X 10 hr./day X 20 FTES X 575/hr.	N/A 9/21/2022	7/10/2023
NICDF027	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. An unanticipated ac or near miss.	occident resulting in injury Open	Threat	Accept R	Rare Mino	or 1-L	\$ 30,	100 \$ 75,	00 \$	1,440,000	2 5	5 9	96 Best Mos	Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. t Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. st Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A 9/21/2022	7/10/2023
NICDF030R2	D.4.06.37.05	IEC Reese, Craig	N/A	New ICDF Cell: Overtime Required		quire overtime recover or	Threat	Accept Po	ossible Moder	rate 2-L	S 144,	100 \$ 288,	00 \$	432,000	16 3	32 4	48 Best Mos	: Case: 16 days X 1 hr./day X 120 FTEs X \$75/hr. N/A tt Likely Case: 32 days X 1 hr./day X 120 FTEs X \$75/hr.	N/A 12/8/2022	7/10/2023
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 Spring and fall weat	ather prevent Open	Threat	Accept Po	ossible Mino	or 2-L	Low \$ 75,	100 \$ 225,	00 \$	675,000	5 1	15 4	45 Best		N/A 12/8/2022	7/10/2023
					cell and evaporation ponds. construction work a													t Likely Case: 15 days X 10 hr./day X 20 FTEs X \$75/hr. st Case: 45 days X 10 hr./day X 20 FTEs X \$75/hr.		
NICDF034	D.4.06.37.05	IEC Reese, Craig	N/A	PM Support - ICDF: Identification of Contamination	Unforeseen radiological and/or hazardous contamination is didiscovered outside the boundaries of known sources.	dentified. Open	Threat	Accept Po	ossible Mino	or 2-L	s 30,	100 \$ 75,	00 \$	300,000	2 5	5 2	Mos	Case: 2 days X 10 hr./day X 20 FTEs X 575/hr. t Likely Case: 5 days X 10 hr./day X 20 FTEs X 575/hr. st Case: 20 days X 10 hr./day X 20 FTES X 575/hr.	N/A 12/8/2022	7/10/2023
NICDF037a	D.4.06.30	IEC Reese, Craig	Reese, Craig	New ICDF Cell: BEA Support Services Do Not Meet ICDF Scheduled Need Dates	IEC relies on BEA for support services on Milestones, regulatory commitments, and scope completion. If the work from BEA is delayed, a timely manner, or does not meet the new intersection of the commitments of the services	s do not provide power in Open	Threat	Shared Un	nlikely Mino	or 2-L	\$ 60,	000 \$ 240,	00 \$	2,640,000	4 16	.6 17	176 Best Mos	: Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. Propose Shared to DOE tt Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr.	N/A 2/2/2023	9/18/2023
NICDF038	D.4.06.34.05	IEC Reese, Craig	N/A	New ICDF Cell: EVMS Certification		ay of EVMS certification. Open	Threat	Accept Po	ossible Mino	or 2-L	Low \$	- \$ 1,	00 \$	6,000	0 1	16 9	96 Best	st Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr. Case: No impacts are applied. N/A	N/A 6/26/2023	7/10/2023
				Disapproval/Delay	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												Mos	tt Likely Case: 1 month delay to rework CD Approval uments * 1½/month = \$1k \$ t Case: EVMS certification disapproval results in 6 months		
					increased costs. This would impact IECs ability to execute work on Capital Asset projects after Critical Decision (CD) 2.													estructure * 1k/month = 56k		
NICDF039a	D.4.06.34.05	IEC DOE FPD	Reese, Craig	New ICDF Cell: CD2/3 PMB higher than Phase 2 Plan	E (CDF 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 also with different costs	s and/or schedule	Threat	Shared Po.	ossible Serio	us 3-Mod	derate \$ 250,	100 \$ 500,	00 \$	750,000	32 6	54 9	und	er FY24/25 time frame with additional \$250K.	N/A 7/10/2023	9/18/2023
					planning two years of scope under Task Order 3 Phase 2 (FY24-FY25). 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	nned under TO3 Phase 2.											und Wo i	st Likely. Additional 4 months needed for scope identified er FY24/25 time frame with additional \$500K. st Case: Additional 6 months needed for scope identified		
					schedule than planned.												und	er FY24/25 time frame with additional \$750K.		
NICDF040	D.4.06.37.05	IEC Reese, Craig	Reese, Craig	Excavation Uncovers Unanticipated Basalt	While doing excavation there is a chance to uncover basalt in the Cell Discovering Basalt p 3 area that can cause a delay in the schedule or a need to assess a new	pockets. Open	Threat	Mitigate Po	ossible Mino	or 2-L	Low \$ 30,	100 \$ 75,	00 \$	1,200,000	2 5	5 8	80 Best	: Case: 2 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely :: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Worst Case: 80 labor and equipment to remove the basalt.	11/8/2023 3/1/2024	3/1/2024 None
NRFDD008R2	D.5.01.30.20D.5.0	IEC Burtenshaw, Shawna			path forward. Loss of contamination control (outside D&D boundaries) during An unanticipated ev	event driven by discovery Open	Threat	Accept Un	nlikely Moder	rate 2-L	Low \$ 100,	100 \$ 500,	00 \$	1,000,000	10 24	4 3	day:	s X 10 hrs/dy X 20 FTEs X \$75/hr acts are estimated based on loss of contamination requiring N/A	3/20/2022 10/9/2023	None
			Shawna	Control	demolition may result in personnel contamination and/or extended shutdown for recovery. of contamination or possibly portable ai	outside of the boundary, iir monitor.												ep back and recovery planning, additional surveys and PPE, execution to recover the area.		
NRFDD009	D.5.01.32	IEC Burtenshaw, Shawna	Burtenshaw, Shawna	NRF Naval Reactors: NRF West Gate Access	The West entrance for NRF using gate 4 has Limited ingress/egress for the heavy Equipment the heavy equipment and waste shipments due to high voltage power conductors overhead.		Threat	Accept Li	Likely Mino	or 2-L	Low \$ 21,	100 \$ 42,	00 \$	84,000	4 8	8 1	Case	Case: 4 days X 10 hrs/dy X 7 FTEs X \$75/hr Most Likely -8 days X 10 hrs/dy X 7 FTEs X \$75/hr Worst Case: 16 days hrs/dy X 7 FTEs X \$75/hr	INCOMPLETE 7/10/2023	None
					13' in height that wi	oad ilmit no greater than vill require an alternate ed high voltage power											1	,		
NRFDD010	D.5.01.32	IEC Burtenshaw, Shawna		NRF Naval Reactors: A1W Turnover Delayed	outage. This work scope is based off an FMP schedule with a phased approach A1W turnover phas	ses are not turned over as Open	Threat	Accept R	Rare Mino	or 1-L	Low \$ 21,	100 \$ 42,	00 \$	84,000	4 8	8 1		: Case: 4 days X 10 hrs./day X 7 FTEs X \$75/hr. Most Likely N/A	4/12/2022 7/10/2023	None
			Shawna		to turnover and transfer ancillary A1W facilities to IEC starting June 1, scheduled. 2023. If the transfer does not happen as scheduled there is a risk of schedule and associated cost delays until turnover is completed.													e: 8 days X 10 hrs./day X 7 FTEs X \$75/hr.Worst Case: 16 s X10 hrs./day X 7 FTEs X \$75/hr.		
NRFDD011	D.5.01.32	IEC Burtenshaw, Shawna	Burtenshaw, Shawna	NRF Naval Reactors: Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to	Open	Threat	Accept R	Rare Moder	rate 1-L	Low \$ 37,	i00 \$ 225,	00 \$	337,500	5 3	30 3		: Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = N/A 500Most Likely Case: 30 days X10 hrs/dy X 10 FTEs X	8/11/2022 7/10/2023	None
NRFDD012	D = 01 22	IEC Posterio		NDF Neural Programme Communication Communica	incur additional costs & schedule delays.		There's	Accort	Para		6	1,500,	00. \$	3,000,000 1	100 18	90	\$75 \$75	/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X /hr = \$337,500	3/20/2022 7/10/2023	Non
NVLDD017	D.5.01.32	IEC Burtenshaw, Shawna		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 ac or near miss.	Open	inreat	лисери В	Rare Critic	cal 3-Mod	verate → 750,	1,500,		.,000,000 1	18	80 20	\$75 hrs.,	Case: 100 days x 10 hrs./day x 8 people x \$93/hr. = N/A 0,000 Msy x 10 hrs./day x 10 days x 10 /day x 8 people x \$93/hr. = \$1,500,000	3/20/2022 7/10/2023	None
RHTRU001R2	D.2.04.30.14	IEC Troescher, Pat	N/A	RH-TRU Waste Disposition: Achieving	Achievement of the FY24 of processing 10 Lot 11 containers and the Critical failure of face	acility support equipment Open	Threat	Accept Un	nlikely Moder	rate 2-L	Low \$ 200,	100 \$ 300,	00 \$	600,000	16 3	32 6	\$3,0	st Case: 204 days x 10 hrs./day x 8 people x \$93/hr. = 00,000 as are based on fees associated with missed delivery dates. N/A	Actions include: 3/20/2022	7/10/2023
					FY25 of processing 10 Lot 11 containers, due to critical failure of equipment, impacts the Idaho Settlement Agreement (ISA) and Delay 1. Procure manipul	specific to: llators						1					Best	Case: 16 days down time X 20 FTEs X \$41.50/hr. X 10hr. = 2.800 + fee	The MSM critical spare parts for the Models FX, F, and G is based on current critical spare parts inventory,	
					to site treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.												Mos \$26	t Likely: 32 days down time x 20 FTES X \$41.50/hr. X 10hr. = 5,600 + fee	consumption of critical spares, and lead time to receive replacement parts from the vendor. The system engineer supporting the project tracks and maintains	
																		st Case: 64 days down time x 20 FTES X \$41.50/hr. X 10hr. = 1,200 + fee	the inventory for the critical MSM and some PaR spare parts currently installed in the CPP-666 FDP and CPP659 NWCF hot cells. A new PaR tube assembly was	
																			procured and installed in the CPP-666 Hot cell. Monthly and annual PM's are performed on the PaR's	
																			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-666.	
																			There are spare electrical components (i.e., 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	
																			they plan to provide funding for procurement or manipulators and upgrades to the FDP in cell crane from analog to digital.	
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RHTRU300 SNF007R2	D.2.04.30.14 D.2.04.30 D.1.02.32.31	IEC	Troescher, Pat Troescher, Patrick 1 Elisworth, Carla	Troescher, Patrick	Containers	Processing lot 11 containers are taking longer than planned due to inaccurate generator information. Causing the use of OT to catch up. There is a risk that the RH TRU disposition project will exhaust Interim Storage Container space for Lot 11 product drums generated that are greater than 200 mR/hr.	 Shipping of LLW was put into priced option. 	Open	Threat	Mitigate	Possible										Worst Case: 32 days down time x 5 FTES X \$41.50/hr. X 10hr. = \$66,400		Lot 11 containers chosen for treatment are evaluated for any documentation referencing NaK. A		
RHTRU300	D.2.04.30 D.1.02.32.31	IEC	Troescher, Patrick 1	Troescher, Patrick	Containers	inaccurate generator information. Causing the use of OT to catch up. There is a risk that the RH TRU disposition project will exhaust Interim Storage Container space for Lot 11 product drums generated that are	 Shipping of LLW was put into priced option. 	Open	Threat	Mitigate	Possible	1											small population of waste components (i.e., 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 (>100)gl of Nat that cannot be water treated, then the components will be stored until an operations time slot is available to perform distillation.		
SNFQ07R2	D.1.02.32.31	IEC			zk RH TRU disposition exhausts stoagre space.	Storage Container space for Lot 11 product drums generated that are						Minor	2-Low	\$ 24,90	00 \$	49,800 \$	97,600	2	4		Best Case: 2 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$24,900 Most Likely: 4days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$49,800 Worst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 10hr. X 1.5 OT = \$40,800 Morst Case: 8 days OT X 20 FTES X \$41.50/hr. X 10hr. X	slippage and reduce further schedule	N/A 4/23/	/2023 7/10/20	023
			Ellsworth, Carla	N/A			re Therefore, not being able to ship the waste will also producing additional waste will eshaust storage space.		Threat	Accept Ali	Imost Certain	Minor	3-Moderate	\$ 10,000,00	00 \$ 1:	500,000 \$	15,000,000	64	80		597.600 These impacts are based on the remaining wast to be porcessed against space needed for storage.		3/1/2	024 3/1/20	The percentage of drums generated that are greater than 200 miR/hr is approximately 30% of the total population of Lot 11 drums generated. The number of drums generated in the past six months is approximately 23. There are currently 46 open positions to store Lot 11 product drums greater than 200 miR/hr. Based on the current generation rate and 30% of drums generated, the HR TRU project will run out of space in three years (best case). Most likely case is estimated the RR TRU project will run out of space in one years, and worst case the RR TRU project will run out of space in one years.
SNF008R2	D.1.02.32.31				CPP-603 PaR Manipulator Malfunction	ATR-Direct: Transfers are delayed because of a malfunctioning CPP- 603 PaR manipulator (MAN-GSF-401).	manipulator (MAN-GSF-401), certain PaR motions appear to be or are abnormal/malfunctioning. Failure of the manipulators results in schedule delays.	Open	Threat	Accept	Likely	Minor	2-Low	\$ 107,01	16 \$	214,032 \$	535,080	7	14		Best Case: 7 days X 12 hr. X 13 FTEs X 598/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X 598/hr. Worst Case: 35 days X 12 hr. X 13 FTEs X 598/hr.	N/A	Maintain the PAR. Work with BEA to reschedule ATR 3/20/ Receipts.	2022 7/10/2	023
		IEC	Ellsworth, Carla		Camera Failures Due to High Radiation Fields	ATR-Direct: High rad fields in the cave cause premature failure of the ids cameras in the CPP-603 fuel handling cave.	 Failed remote cameras hinder or prevent normal fuel handling operations in the CPP- 603 IFSF cave and fuel storage area. 	Open -			Likely	Minor	2-Low	\$ 45,86		214,032 \$	428,064		14		Best Case: 3 days X 12 hr. X 13 FTEs X 598/hr Most Likely: 14 days X 12 hr. X 13 FTEs X 598/hr Worst Case: 28 days X 12 hr. X 13 FTEs X 598/hr	In the majority of instances, alternative cameras can be utilized to allow the continuation of operations. Perform camera replacement analysis. -Purchase Back-up Cameras		/2022 7/10/2	
SNF009R2	D.1.02.34.02	IEC	Ellsworth, Carla	N/A	CPP-749 1st Generation Vaults Remediation: Changing CPP-749 Security Requirements	 CPP-749 Remediation: Project activities are delayed because of changing CPP-749 security requirements. 	Requirements derived from planned security related vulnerability assessments impose more restrictive security controls.	Open		Accept	Possible	Minor	2-Low	\$ 45,86	54 \$	214,032 \$	428,064	3	14		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	N/A	Work with DOE/BEA to ensure project activities comply 3/20/ with security plan.	2022 7/10/20	023
	D.1.02.34.02	IEC	Ellsworth, Carla		Inadequate Shielding Results in Exorbitant Radiation Level	determined to be inadequate, resulting in radiation levels higher than those allowed for extended work in the 1st Generation Vault area.	allowable radiation levels.				Possible	Minor	2-Low	\$ 107,01		214,032 \$	535,080		14		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. Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	waste management to mitigate radiation levels.	/2022 7/10/20	
SNF011R2	D.1.02.34.02	IEC	Ellsworth, Carla	N/A		in: CPP-49 Remediation: Fuel packages stored in certain Peach Bottom vaults are found to have excessive corrosion, precluding normal fuel package retrieval methods.		Open	Threat	Accept	Possible	Minor	2-Low	\$ 107,01	16 \$	214,032 \$	535,080	7	14	204	Best Case: 7 days X 12 hr. X 13 FTEs X 598/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X 598/hr. Worst Case: 35 days X 12 hr. X 13 FTEs X 598/hr.	N/A	Fuel packages will be visually inspected prior to being littled 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 retrieval equipment capable of safely lifting a jeopardized fuel package has been developed and reviewed/approved by DOE.	7/10/2	D23
SNF015R2	D.1.02.32.31	IEC	Ellsworth, Carla	N/A	Advanced Test Reactor (ATR) SNF Receipt: IEC schedule Delay Caused by ATR	IEC ATR Direct: IEC schedule delay caused by ATR.	Equipment and/or operations delays at ATR cause delayed or moved shipment dates to INTEC		Threat	Mitigate Ali	lmost Certain	Minor	2-Low	\$ 45,86	64 \$	700,000 \$	1,700,000	3	208	208	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	Alternative work activities will me made available by upper management in the event of an ATR schedule delay.		/2022 7/10/2	.023
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.	t Destaco clamps found to be damaged or damaged when remotely attempting to open/close a clamp.	Open	Threat	Accept	Possible	Critical	4-High	\$ 1,231,25	58 \$	308,608 \$	2,616,422	96	180		Best Case: 96 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$1,231,258 Most Likely: 180 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,308,608 Worst Case: 204 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,616,422	N/A	N/A 3/20/	/2022 7/10/2	023
	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	Mitigate	Rare	Moderate	1-Low	\$ 675,00	00 \$	025,000 \$	5,400,000	30	60		Best Case: 30 days X 10 hr./day X 30 FTE X \$75/hr.Most Likely Case: 60 days X 10 hr./day X 45 FTEs X \$75/hr.Worst Case: 120 days X 10 hr./day X 60 FTEs X \$75/hr.	N/A	N/A 1/11/	/2023 7/10/2	023
SNF021R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Subcontract Management	Not securing a subcontractor that can do the work in the time allotted for the project can cause schedule delays.	Subcontractor is not readily accessible to perform work.	Open	Threat	Accept	Rare	Serious	2-Low	\$ 30,00	00 \$	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%	N/A	N/A 1/11/	/2023 7/10/2	023
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	Mitigate	Possible	Minor	2-Low	\$ 12,00	00 \$	30,000 \$	60,000	8	16		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 X 5%		N/A 1/11/	/2023 7/10/2	023
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	Mitigate	Possible	Minor	2-Low	\$ 12,00	00 \$	30,000 \$	60,000	8	16		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 1/11/	/2023 7/10/2	023
SNF025R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Qualified Subcontractors	ors Subcontractor not on Qualified Supplier List (QSL) at the appropriate quality level.	No qualified vendor identified during solicitation process.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 3,000,00	00 \$	000,000 \$	8,000,000	12	42	72	X 10% Best Case: \$3M in design rework Likely Case: \$5M in design rework and reordering of materials. Worst Case: \$8M	N/A	N/A 1/11/	/2023 7/10/2	:023
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 bearing pressure may cause major ground stabilization activities.		Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 20,00	00 S	32,000 \$	48,000	20	32		Review alternate locations and get DDE concurrence Best Case: 5 weeks Most Likely 8 weeks Worst case 12 weeks Each day will cost 1,000/day to relocate the pad.	Grout fill voids if they are minimal. adjust the location of the pad as necessary. Over-excavation and backfill with suitable material.	Design for ground stabilization to be performed based a/23/ on soil investigation	2023 7/10/2	023
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	Accept	Possible	Moderate	2-Low	\$ 51,60	00 \$	126,000 \$	242,000	16	32	64	Best Case: Redesign the pad to not impact existing infrastructure/duline: 1 subcontractor for 1 additional month worth for \$50K and 1 FTE in engineering for 1 month @ \$100/hr. 1. 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	N/A	Relocate the pad or change the shape of the pad to avoid existing utilities if possible 4/23/	2023 7/10/2	023
SNF039	D.1.04.03.03	IEC	Cotterell, Jaksen	N/A	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.	g Realized	Threat	Accept	Possible	Critical	4-High	\$ 500,00	00 \$	750,000 \$	1,000,000	104	156	208	and \$50,000 in construction costs 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	2023 7/10/2	023
SNF042	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility. Security System and Facility Design Contract	BEA has confirmed they will perform the security design for the Staging Facility. The pad design will be performed by an external company. Coordination between the two designs is beyond originally anticipated.	The progression of each design DOE-ICPs not progress as currently scheduled.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 200,00	00 \$	\$500,000	1,000,000	24	32		Develop a second SOW, work through a second contract through subcontract administration. Additional coordination for IEC to manage two engineering firms and process paperwork. Best Case: Z weeks. @ 40hr./week x 1 FTE @ \$100/hr. + 4 weeks @ 95 hr. for sub administration @ \$80/hr. Most Likely: 4 weeks @ 40hr./week x 1.5 FTE @ \$100/hr. + 4 weeks @ 95 hr. for sub administration @ \$80/hr. Worst Case: 8 weeks @ 40hr./week x 2 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.	/2023 7/10/20	023
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 closure/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.	Closed	Threat	Accept	Unlikely	Major	3-Moderate	\$ 100,00	00 \$	150,000 \$	200,000	64	96	128	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 7/10/2	023

SNF054	D.1.02.34.02		olds, Boedre		each Bottom: Mobile Crane Maintenance	Exceeding the Mobile Crane manufacturers recommended operating hours for performing routine maintenance delays Peach Bottom transfers. The future staging facility location is in a CERCLA area and may have	machines monitoring system and concludes the manufactures recommended operating hours are exceeded.	Realized Th	reat Mitigat	e Possible Likely	Minor	2-Low	\$ 15,500 \$ 316,000	\$ 46,000	\$ 62,4	00 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 Worst Case: 4 days plus equipment/materials Impacts to schedule on IEC activities will be minimal if any.	I.) Increase periodicity of planned maintenance. 2) Perform additional routine observations the machines monitoring system on maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CF/big shop for preventative maintenance.	0	7/10/2023
3.1.00				S	ubcontractor Equipment	contaminated soil. If the drill rig is contaminated and the equipment or parts of the equipment have to be replaced.			Tax Paccar	Links	School	4	3.0000	300,000					Major impacts are to the subcontracting's schedule with current work they have. Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 peop ⊕ 550/hr. for 80 hours. Subcontractor loses 3 weeks on other projects - cost ⊕ \$100K per week Most Likely: Parts of the equipment must replaced equating to \$100K, and the subcontractor has delays on other project of 4 weeks € \$100K per week and \$50K in delays on other project of weeks € \$100K per week and \$50K in delays on other project of EC personnel spend 2 weeks wighing down subcontractor.	,		, , od, oos
																			equipment 4 people @ \$50/hr. for 80 hours Worst Case: Subconstractor must replace the piece of equipment, rent equipment for current projects and wait 4 months for new equipment. New equipment is \$500K, rental is \$200K per month	i		
TO3002R2	Project Wide	IEC Mul	Itiple CAMs Mu		ilobal Risk: Work Delay Due to Abnormal Veather Conditions	Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule.	Events that are above average or severe weather conditions occur, based on historical precedents that would lead to Site	Open Th	reat Accept	Possible	Serious	3-Moderate	\$ 500,000	\$ 1,000,000	\$ 7,000,0	00 0.5	1	7	Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 7 days	N/A	N/A 4/13/2022	7/10/2023
TO3005R2	Project Wide	IEC Mul	itiple CAMs Mu	ultiple Projects <u>G</u> E	ilobal Risk: Stop Work Due to External vents	External event(s) at other INL locations or DOE sites cause a stop wor	Locations or other INL locations or other DOE sites cause a work stoppage. Events include, but are not limited to considerable continuation of continuation events that shut down other facilities, any crisis that is found at another facility that could potentially exist at Idaho (Cleanup Project (ICP) causing a stop work, etc.	Open Th	reat Accept	Unlikely	Serious	2-Low	\$ 500,000	\$ 1,000,000	\$ 7,000,0	0.5	1	7	Best Case: Complete Site Shut Down for .5 days Most Likely: Complete Site Shut down for 1 day Worst Case: Complete Site Shut down for 7 days	N/A	N/A 6/8/2022	7/10/2023
TO3P2005a	Project Wide D.2.03.31.06		itiple CAMs M		ine-Item Project Funding	Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (EC), limitation of base scope execution may be experienced as a direct result of variability in funding inability to execute base scope under the end state contract model will result in longer durations required to reach the desired end-states. This will increase the overall costs of the Idaho Cleanup Project (ICP), and coul impact staffing levels. If WIPP certified characterization equipment fails and can no longer by	causes limitations that impact the execution of the base scope.		reat Share	Almost Certain		5-Very High	\$ 1,000,000,000				1,350		Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE	11/20/202 Continue to perform maintenance on equipment, keep 4/23/203	1/10/2024
INGUSTAZ	5.2.03.31.00	ice byre	ani, deoi ge	ļc		in wirry ce mixed characterization equipment lains and call no longer to used, then CHTRU waste certification and shipment could be impacted. The equipment is older technology that is still in use.	radiography equipment.	Open III	reat ivilligat	e Offikely	iviajoi	5-Modelate	3 24,000	3 102,000	3 133,	00 10	08	102	best Case: 16 days x 10 in //day x 2 people x 5/3/in:= 510,200 Most Likely: 68 days x 10 hr./day x 2 people x \$75/hr.= \$102,000 Worst Case: 102 days x 10 hr./day x 2 people x \$75/hr.= \$153,000	hand as availability allows.	Continue to perior in inaliterative on equipment, seep space parts on hand, and monitor data quality to verify systems are operating normally.	77.00,202.3
TRU012R2	D.2.03.31.06	IEC Byra	am, George	A	ussay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire	If NDA results, using ISOCs and all other available NDA equipment, we not provide valid assay results for the entire inventor of waste containers at the RWMC, then both TRU and MLIW certification cannot be completed. This may result in the need for repeakaging of waste containers by splitting the waste into multiple daughter containers, combining two or more containers, and/or an other means. After re-assay, one or more of the resulting containers may still be indeterminate for assay and have no approved disposition path from RWMC.		Open Th	reat Mitigat	e Rare	Moderate	1-Low	\$ 48,000	\$ 96,000	\$ 144,0	00 16	32	48	Best Case: 16 days x 10 hr /day x 4 people x 575/hr = 548,000 Mort Likely; 25 gays x 10 hr /day x 4 people x 575/hr = 596,00 Worst Case: 48 days x 10 hr /day x 4 people x 575/hr = \$144,000		e	7/10/2023
TRU019R2	D.2.03.31.06	IEC Byra	am, George	N/A C		If the annual Site Treatment Plan milestone is missed, then potential significant cost impact due to lost fee and holdback resulting from IDEQ penalty.		Open Th	Mitigat	e Possible	Serious	3-Moderate	\$ 51,200	\$ 99,200	\$ 201,4	00 32	62	84	Best Case: 32 days x 10 hr /day x 2 people x \$80/hr = \$51,200 Mort Likely; 62 says x 10 hr /day x 2 people x \$80/hr = \$59,20 Worst Case: 84 days x 10 hr /day x 3 people x \$80/hr = \$59,00		4/23/2023	7/10/2023
TRU022	D.2.03.31.06	IEC Byra	am, George	ļ c	H-TRU Waste Disposition: Waste Not compliant for Waste Isolation Pilot Plant WIPP) Disposition	If TRU waste is identified that cannot be disposed of in its current configuration, then additional processing, AK development, WIPP authorization, etc., may be required.	Identification of containers that do not allow for certification.	Open Th	reat Mitigat	e Possible	Serious	3-Moderate	\$ 96,000	\$ 192,000	\$ 384,6	00 32	64	128	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.= \$96,000 Most Case: 128 days x 10 hr./day x 4 people x \$75/hr.= \$384,000	Establish new capabilities by review and reconciliation of container data for waste destined for WIPP.	N/A 4/23/2023	7/10/2023
TRU023	D.2.03.31.06	IEC Byra	am, George	N/A C	H-TRU Waste Disposition: CERCLA Facility inavailability for Sampling/Remediation	If sampling and/or remediation (ammonium nitrate filters, high uranium, etc.) of CERCLA waste is necessary and an ARP facility is not available, then a non-RCRA facility will be required with potential update of ARP waste CERCLA requirements.	ARP waste requires reprocessing or testing.	Open Th	reat Mitigat	e Likely	Serious	4-High	\$ 96,000	\$ 192,000	\$ 384,0	32	64	128	Best Case: 32 days x 10 hr /day x 4 people x 575/hr = 596,000 Mont Likely: 64 days x 10 hr /day x 4 people x 575/hr = S192,000 Wonst Case: 128 days x 10 hr /day x 4 people x 575/hr = S384,000	testing. If results show that ammonium nitrate in ARP waste is acceptable, risk can b		7/10/2023
TRU024	D.2.03.31.06	IEC Byra	am, George	N/A C	H-TRU Waste Disposition: Waste Does Not Meet Basis of Knowledge (BoK) Criteria	If containers do not meet BoK requirements, then additional processing will be required.	Containers fail BoK criteria.	Open Th	reat Mitigat	e Possible	Moderate	2-Low	\$ 24,000	\$ 48,000	\$ 96,0	00 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 if necessary.	Continue BoK calculations for waste destined for WIPP. 4/23/2023 and make notifications if any fail.	7/10/2023
TRU025	D.2.03.31.06	IEC Byra	am, George		H-TRU Waste <u>Disposition</u> : Product Drums lannot be Certified	If TRU product drums that fall container integrity (CI) inspections exceed allowable fissile gram equivalence (FGE) limits for a standard waste box (SWB) and the Advanced Mixed Waste Facility (AMWTF) is not available for reprocessing, then the drums cannot be overpacked or reprocessed and the waste cannot be certified.	failure and cannot be overpacked into an SWB.	Open Th	reat Mitigat	e Possible	Serious	3-Moderate	\$ 96,000	\$ 192,000	\$ 384,0	00 32	64		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	product drums, with the overpack bag FGE limit higher than of an SWB	Assign product drums to SWBs as they fail CI and make notifications if FGE assignment precludes overpack.	
TRU026	D.2.03.31.06	IEC Byra	am, George	N/A <u>C</u>	H-TRU Waste Disposition: Product Drums lequire Reprocessing and Facility is Not wailable	If TRU product drums must be reprocessed (liquid, high Fissile Gram Equivalence (FGE), crit cleanout puck, etc.) and Advanced Mixed Waste Treatment Facility (AMWTF) is not available, then containers cannot be reprocessed and cannot be certified.	prohibited condition and the AMWTF is not	Open Th	reat Mitigat	e Likely	Serious	4-High	\$ 96,000	\$ 192,000	\$ 384,0	00 32	64	128	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.= \$192,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr.= \$384,000	Identify and reprocess problematic product drums prior to AMWTF closure.	Identify problematic product drums while facilities still exist for reprocessing 4/23/2023	7/10/2023
TRU027	D.2.03.31.06	IEC Byra	am, George		H-TRU Waste <u>Disposition</u> : Small Waste tream Resource Availability Issues	If development and approval of required TRU waste stream documentation overwhelms available internal personnel resources on those of the approving entity, then the waste cannot be certified.	Cannot certify populations of containers due to limited personnel and priorities associated with larger waste streams.	Open Th	reat Mitigat	e Possible	Critical	4-High	\$ 96,000	\$ 192,000	\$ 384,0	00 64	128	256	Best Case: 64 days x 10 hr./day x 2 people x \$75/hr.= \$96,000 Most Likely: 128 days x 10 hr./day x 2 people x \$75/hr.= \$192,000 Worst Case: 256 days x 10 hr./day x 2 people x \$75/hr.= \$384,000	Utilize CCP AK Support and develop a system to work smaller waste streams and prioritize larger waste streams as they are being developed.		7/10/2023
TRU029	D.2.03.34.04	IEC Loft	tus, Nathan		H-TRU Storage & Movement; Loss of contamination Control	Loss of contamination control during either storage or movement of containers.	Containers lose container integrity during storage and/or movement and contents are spilled.	Open Th	reat Mitigat	e Likely	Moderate	3-Moderate	\$ 18,000	\$ 36,000	\$ 54,0	10	20	30	Best Case: 10 days x 10hr/day x 4 people x \$45/hr. = \$18,000 Most Likely: 20 days x 10hr/day x 4 people x \$45/hr. = \$36,00 Worst Case: 30 days x 10hr/day x 4 people x \$45/hr. = \$54,00	0 waste drums as they come out of storage an	Continued effort in monitoring, testing, and ensuring d drum integrity and they prepare to be moved to off-site storage.	7/10/2023
TRU030	D.2.03.34.05	IEC Loft	tus, Nathan			Need for equipment replacement due to accident, breakdown, end of useful life, labrication of new drum movement components/attachments, etc.	Replacement parts or replacement vehicles are unable for purchasing or long lead times.	Open Th	reat Mitigat	e Likely	Moderate	3-Moderate	\$ 28,800	\$ 64,000	\$ 105,4	00 16	32	48	Best Case: 16 days x 10hr./day x 4 people x 545/hr. = 528,800 Most Likely: 32 days x 10hr./day x 4 people x 550/hr. = 564,00 Worst Case: 48 days x 10hr./day x 4 people x 555/hr. = 5105,600	Maintain and log aging parts/vehicles that 0 may be needing replacement in the future.	Monitoring of equipment and planning of purchasing replacement parts/vehicles for future use and aging equipment becomes obsolete.	7/10/2023

TRU031	D.2.03.35.06	IEC	Hubler, Rachelle	N/A	CH-TRU Packaging and Transportation: Commodity Availability/Cost Increases/Alternate Vendor Needs	Delays associated with receipt of various commodities due to vendor delays with raw material delivery/manufacturing. Commodities include tent materials, helium leak detectors and/or shipping materials.	Open	Threat	Mitigate	Likely	Minor	2-Lov	.ow \$	14,400 \$	28,800 \$	43,200	8	16	24	Best Case: 8 days x 10hr./day x 4 people x 45/hr. = \$14,400 Most Likely: 16 days x 10hr./day x 4 people x 45/hr. = \$28,800 Worst Case: 24 days x 10hr./day x 4 people x 45/hr. = \$43,200		Find alternative commodities compatible with scope requirements.	4/23/2023	7/10/2023
TRU032	D.2.03.35.04 D.2.03.35.05	IEC	Hubler, Rachelle	N/A	CH-TRU Packaging and Transportation: CH- TRU/LLW/MILLW Waste Returned for Out-of Compliance Determination	Waste Returned for Out-of-Compliance Determination by Treatment, - Storage, and Disposal Facility (TSDF). Out-of-Compliance defined as damaged or leaking drums unable to pass TSDF inspection prior to acceptance of shipment and placed in storage.	Open	Threat	Mitigate	Likely	Major	4-Higi	ligh \$	80,000 \$	100,000 \$	250,000	50	75	90	Best Case: 50 days x 10hr /day x 4 people x 45/hr: = \$80,000 Most Likely: 75 days x 10hr /day x 4 people x 45hr. = \$200,000 Most Likely: 75 days x 10hr /day x 6 people x 45/hr: = \$250,000 Transportation and loading/unloading costs \$150K-\$250,00 Transportation and loading/unloading costs \$150K-\$200K inspection costs \$80K-\$250K	of LLW/MLLW drums before shipping to	WIPP may change their requirements or may introduce new interpretations of existing requirements, resulting in delays associated with profiling and certification or may necessitate reprocessing of waste	4/23/2023	7/18/2023
TRU033	D.2.03.36.05	IEC	Vargesko, Matt	Zovi, Bruno	AMWTP LLW/MLLW Disposition: Pallet and/or Macrobag Procurement Vendor Output Issues impact Shipping Schedule and 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 request. To procure the meded materials may belay nosite macroencapsulation (IMACRO) and/or packaging operations. This may cause enough delay to cancel scheduled shipments of treated waste to offisite 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.	R Open	Threat	Mitigate	Possible	Minor	2-Low	s.ow \$	15,000 S	15,000 S	114,000	8	8		Best Case: We continue to order MACRO bags and pallets for MLLW shipments, which costs 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. MLLW shipments, which costs approx. \$15,000 per shipment MUSC fase: We cannot exquire MACRO bags and must ship a 6 B8-90 shipment to WCS instead of NMSS. 6B8-90s = 2.55 *6 = 15.3m. 3 1.5.3m ancreencepaulation at WCS costs \$7449.11 per m3. 15.3 *57449.11 = \$113,971 = \$114,000.	MACRO bags and pallets, and procure additional back-up pallets to ensure	N/A	4/23/2023	7/10/2023
TRU034	D.2.03.32.04	IEC	Martin, David	N/A	CH-TRU Treatment Facility Support: Difficult Waste Stream	to Delays associated with the treatment of the AE 102/105 waste that prevent the start of the PCB Waste campaign.	Open	Threat	Mitigate	Likely	Moderate	3-Moder	derate \$	24,000 \$	48,000 \$	96,000	16	32		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. = \$48,000 Worst Case: 64 days x 10 hr./day x 2 people x \$75/hr. = \$96,000	any schedule slippage and prevent total	N/A	4/23/2023	7/10/2023
TRU035	D.2.03.32.05	IEC	Martin, David	N/A	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	3-Modei	derate \$	96,000 \$	192,000 \$	384,000	32	64	128	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. = \$192,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr. = \$384,000	Implement the usage of overtime to recover any schedule slippage and prevent total schedule loss.	N/A	4/23/2023	7/10/2023
TRU036	D.2.03.32.05	IEC	Martin, David	N/A	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. Ammonium Nitrate waste requires reprocessing or testing.	Open	Threat	Mitigate	Likely	Serious	4-Hig	ligh \$	96,000 \$	192,000 \$	384,000	32	64		Best Case: 32 days x 10 hr /day x 4 people x \$75/hr. = \$96,000 Most Likely: 6d 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	Implement the usage of overtime to recover any schedule slippage and prevent total schedule loss.	N/A	4/23/2023	7/10/2023
TRU039	D.2.03.37.04	IEC	Martin, David	N/A	AMWTP BOP Maintenance: 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 obsolete to keep equipment operating.	Open	Threat	Mitigate	Almost Certain	Serious	5-Very H	y High \$	350,000 \$	500,000 \$	1,000,000	16	64	128	Impacts are estimated based on replacing/repairing equipment.	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.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: BEA Cannot Complete Potential Classified Document Reviews	If BEA1s not available to complete potential classified document reviews, then reviews of required Waste Isolation Pilot Plant (WIPP) documents cannot be completed.	t Open	Threat	Accept	Likely	Critical	5-Very H	y High \$	156,000 \$	312,000 \$	468,000	104	208	312	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	7/10/2023
TRU043	D.2.05.30.19	IEC	Zovi, Bruno	Orme, Jason		e 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. A container(s) is identified as damaged, packaged incorrectly, containing uncert waste, containing prohibited items, etc.		Threat	Mitigate	Rare	Minor	1-Lov	.ow \$	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
TRU049	D.2.03.36.04	IEC	Vargesko, Matthew	Vargesko, Matthew	Generated RCRA Waste	Resource Conservation and Recovery Act (RCA) waste that is generated as part ItEC operations must be shipped of file within I year of generation or IEC must provide documentation for wates with no path to disposition. There is risk for funding to not be adequate for this table of the path to disposition. There is risk for funding to not be adequate for this table of the path	ed	Threat	Accept	Possible	Minor	2-Lov	ON S	37,000 \$	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 a civil penalty of not more than \$373.000 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 KCRA permit is suspended or revoked, it takes quite some thought of the continue to get it back more than illiely 12 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.	N/A	N/A	3/1/2024	None



CID 89303321DEM000061/89304223FEM400000, Mod P00031 CLIN 03, Subtask 302 Task Order 3.2

TO3 Risk Register: DOE Transfer Risks

Idaho Cleanu Updated : 5.9.24	Project Progra	ammatic Risk R	egister												Cost Impacts		Scheo	dule Impacts (in	days)	1					
		Responsible								Handling	Risk Event														
Risk ID CAL007OR2	WBS D.3.02.30.08	Organization DOE	Risk Owner DOE FPD	IEC Risk Back-up Kimbro, Valerie		Risk Description The high-level waste definition interpretation		Status Open	Risk Type Opportunity	Strategy Transfer	Likelihood Rare	Risk Impact Minor	t Risk Rating	\$ (150,000) \$	Most Likely (100,000) \$	Worst Case (80,000)		Most Likely3 -150	Worst Case4	Basis of Impacts	Mitigation Actions Propose Transfer to DOE	3/20/2022	10/9/2023	None	Notes
					Level Waste-Opportunity																				
CAL007TR2	D.3.02.30.08	DOE	DOE FPD	Kimbro, Valerie	Change in Definition Interpretation of High Level Waste-Threat		interpretation requires the Department of Energy (DOE) to pursue a different disposition path	Open	Threat	Transfer	Rare	Critical	3-Moderate	\$ 80,000 \$	100,000 \$	150,000	60	150	150		Propose Transfer to DOE	3/20/2022	10/9/2023	None	
CAL033	D.3.05.31	DOE	DOE FPD	Kimbro, Val	CalcineVIT: Delays in External Approvals of Project Related Documents		Lack of support in RCRA delisting betition or other programmatic documents.	Open	Threat	Transfer	Likely	Serious	4-High	\$ 64,000 \$	128,000 \$	192,000	32	64	96	Cost and schedule impacts are based on possible schedule delays. Basis is estimated as follows: Best Case - 32 days x 10 hr./day x 2 FTE x \$100/hr. = \$64k Most Likely Case - 64 days x 10 hr./day x 2 FTE x \$100/hr. = \$128k Worst Case - 96 days x 10 hr./day x 2 FTE x \$100/hr. = \$192k	Propose Transfer to DOE	6/19/2023	7/10/2023		
INTEC210	D.3.03.32.01 D.3.03.32.02	DOE	DOE FPD	Hamilton, Rob	RC Routines: External Requirements Chang	External Requirements are subject to change. It Examples of external requirements are: DOE ol 0.15.1.C, OSHA, EPA, FEMA, and state and local laws. When external requirements are modified, the project may be required to make significant equipment upgrades, supply employees with additional training, update work control, etc., which could result in unforeseen costs and schedule slippage.		Open	Threat	Transfer	Possible	Major	4-High	\$ 250,000 \$	500,000 \$	1,000,000	48	96	192	Cost to update programs, cost to implement the program and cost to train personnel on the changes	Propose Transfer to DOE	5/18/2023	7/10/2023		
IT001	D.6.02.32	DOE	DOE FPD	Anderson, Jade	Information Technology: Supply Chain Issues for Server Refresh		Emerging national and international events impact supply chain.	Open	Threat	Transfer	Likely	Serious	4-High	\$ 500,000 \$	1,000,000 \$	1,500,000	8	32	144	Best Case: 8 days (plus extended contractor fees) Most Likely: 32 days (plus extended contractor fees) Worst Case: 144 days (plus extended contractor fees)	Propose Transfer to DOE	4/23/2023	7/10/2023		
NICDF008R2	D.4.06.32.04 D.4.06.32.05 D.4.06.33.03 D.4.06.33.04 D.4.06.34.04	DOE	DOE FPD	Reese, Craig		Project efficiency and progress is dependent upon expedient response and support from DOE for review and approval of Critical Decision points in the project life. Extended approvals beyond scheduled approval time frame(s) will impact scheduled delivery and increase cost.	CD Package Approval not received within the scheduled timeframe.	Open Realized	Threat	Transfer	Likely	Minor	2-Low	\$ 60,000 \$	240,000 \$	2,640,000	4	16	176	Best Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Worst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Transfer to DOE	9/21/2022	7/10/2023	REGISTER: While to upon IEC to delive baseline document	DMMENT ONLY/NO CHANGE IN RIShis is a DOE-ID risk, it is incumbent the supporting information, includation, on a schedule to meeting the mpleting actions leading up to the Decisions.
NICDF037b	D.4.06.30	DOE	DOE FPD	Reese, Craig	New ICDF Cell: BEA Support Services Do No Meet ICDF Scheduled Need Dates		insufficient quality of work product or timeliness of completion of BEA timeliness of completion of BEA timeliness conductive technique schedule: BEA power services do not provide power in a timely manner.	Open	Threat	Shared	Unlikely	Minor	2-Low	\$ 60,000	240,000 \$: 2,640,000	4	16	176	Best Case: 4 days X 10 hrs./day X 20 FTEs X 575/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Worst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Shared to DOE	2/2/2023	7/10/2023	services between imust be returned: "IEC Response: Did discussing with DC DOE/IEC. This is in response another contracto (email confirmatio MODPO0065) and "Shared" risk. With to their project ris transfer risks. We to show "Shared ri -Note From DOE: Precedence ICP an	sagree - after re-evaluating and E, this will be a Shared risk with to the BEA services we can't secur for. We proposed this under Phas In from Aaron Nebeker 5/31/2023, t was accepted by DOE to be that being said IEC will add this ris register to carry in addition to the will also update the mitigation activities.
NICDF039b	D.4.06.34.05	DOE	DOE FPD	Reese, Craig	New ICDF Cell: CD2/3 PMB higher than Phase 2 Plan	ICDF New Cell is anticipated to be submitting a T PMB in the spring of 2024 for the lifecycle of the project. Under DOE direction they are also splanning two years of scope under Task Order 3 Phase 2 (FY24-FY25). 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 schedule than planned.	comes out with different costs and/or schedule estimates than planned	Open Realized	Threat	Shared	Possible	Serious	3-Moderate	\$ 250,000 \$	5 500,000 \$	\$ 750,000	32	64	96	Best Case: Additional 2 months needed for scope identified under PY24/25 time frame with additional \$250K. Most Likely, 2dditional 4 months needed for scope identified under PY24/25 time frame with additional \$500K. Worst Case: Additional 6 months needed for scope identified under FY24/25 time frame with additional \$750K.	Propose Shared to DOE	7/10/2023	7/10/2023	will not support CI documents/plans independent Proje completed prior to Decision 2.3 appro Expansion Project confidence with construction contr to be planned for i phases. Further, tr sk must be return should be covered • IEC Ressonse: Di new task order for which contains the TO3.2. This has be Note From DOE: split this risk bett isk register to inci Talley's email to A end up going away, end applied and the project should be covered to the covered should be covered to the covered	Delivery of a PMB in spring of FY 2C b-2/3. The PMB is one of the hat will be included in the ct t Review (IPR) that must be submitting and requesting Critical val. Also, the cost for the ICDF s now known to a much greater e award of the contract to the sctor. The entire project is requirer WhB and not differentiated into he PMB costs are an IEC risk, and the dot o IEC. Also, this type of risk by the Management Reserve. eagree - This risk does not assume a CDF and that the CD-2/3 deliverab PMB will differ than that shown in en discussed with DOE. TALLEY and CRAIG have agreed to seen DOE and IEC. Please update that on both DOE and IEC list. Per tron N. on 9/14/2023: "This risk mid during the finalization of the Risk (RAR) being developed as part of to D) 2/3 documentation."

NICDF042	D.4.06.37 D.4.06.3B D.4.06.3C D.4.06.3F	DOE-ICP	DOE-ICP FPD	Reese, Craig	Continuing Resolutions	Continuing Resolutions end up extending into late FY24, we don't receive funding and it pushes out our ability to finish up the Excavation/Embankments and start Construction Activities for the Evap. Ponds.	Realize	Threat	Transfer	Possible	Minor	2-Low	\$ 30,000 \$	75,000		2	5	20	Incomplete	Propose Transfer to DOE-ICP.	3/1/2024	3/1/2024	
NICDF300	Project Wide	DOF-ICP	DOE-ICP FPD	Reese, Craig	Increased Share of Pension	There is a risk that the pension plan will ICDF is directed to increase pension	Realize	Threat	Transfer	Almost Certain	Moderate	4-High	\$ 360,689 \$	400,766 \$	440,843	0	0	0	Best Case: 2 % ICDF Direct Labor - If total labor on project	Propose Transfer to DOE-ICP.	3/1/2024	3/1/2024	
NICDF300	Project Wide	DOETCE	DOE-ICP FFD	neese, Craig	ilicleased State of Persion	require contributions that exceed what was planned for the ICDF period of performance. This would result in an increased labor cost associated with the additional pension adder.	Realize	illeat	Hansier	Aimost Certain	Moderate	4-riigii	3 300,009 3	400,766	440,043	v	v	Ü	decreases by 10% Most Likely Case: 2% ICDF Direct Labor - If total labor on project increases by 10%	Propose transfer to Doc-tor.	3/1/2024	5/1/2024	
S1W002R2	D.5.01.32	DOE	DOE FPD	Burtenshaw, Shawna	NRF Naval Reactors: Supply Chain Delays and Cost Increases	Due to emerging local, regional, and/or international events the supply chain is events impact supply chain.	Open	Threat	Transfer	Unlikely	Moderate	2-Low	\$ 150,000 \$	300,000 \$	960,000	5	10	32	Best Case: 5 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$150,000	Propose Transfer to DOE	N/A	8/11/2022	
						impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials,													Most Likely Case: 10 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$300,000 Worst Case: 32 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr.				
SNF033	D.1.04.01.10	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: DOE CD-1 Review	services, and personnel. The duration of the DOE review of CD-1 for EIR and CD-1 Review is delayed.	Open	Threat	Transfer	Likely	Moderate	3-Moderate	\$ 120,000 \$	180,000 \$	270,000	16	24	36	= \$960,000 Best Case: the schedule is impacted by 1 month (16 working	Propose Transfer to DOE	4/23/2023	7/10/2023	
					Duration	Staging Facility could potentially extend longer than planned, thus pushing subsequent work scope.													days) and changes need to be made prior to CD-1 approval. Additional costs for 16 days x 10 hrs./day x 10 FTEs x \$75/hr. Most Likely Case: 2-month review delay (32 working days) and				
																			changes to CD-1 prior to approval. Additional costs for 24 days \times 10 hr./day \times 10 FTEs \times \$75/hr. Worst Case: 4 months review delay.				
																			Additional costs for 36 days x 10 hr./day x 10 FTEs x \$75/hr.				
SNF044	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: Storage Regulatory Framework	The Staging Facility design will be developed under DOE regulated framework and does not require NRC framework and licensing. In discussions with DOE and NRC, it is determined that the Staging Facility design must meet NRC requirements.	Open	Threat	Transfer	Unlikely Rare	Major	3-Moderate	\$ 100,000 \$	250,000 \$	500,000	64	96	208	Revise T&FR, SOW and require the subcontractor to fit the staging facility within NRC licensing	Propose Transfer to DOE	4/23/2023	7/10/2023	
																			Best Case: 4 months with a cost of 100,000 Most Likely: 6 months with a cost of 250,000 Worst case 1 year with a cost of 500,000				
SNF313	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	Staging Facility AoA Requirement CD-1	The Management Options for Spent Nuclear Fuel at the Idaho National Laboratory Site On 2/14/2024 IEC was verbally notified that the AoA was not	Realized	Threat	Transfer	Almost Certain	Critical	5-Very High	\$ 180,000 \$	288,000 \$	342,000	80	104	144	Cost only includes IEC forecasted costs	Propose Transfer to DOE	2/21/2024		The Preliminary Project Execution Plan and Conceptual Design Report must incorporate the results of the AoA
						Integrated Project Team Analysis of Alternatives (AoA) Final Report finished January 2021 is not accepted for the Idaho Spent Nuclear Fuel Staging Facility (SNF-SF).													Best Case - 2 months to complete the AoA with 1 month approval. After the AoA approval IEC will need 2 weeks to incorporate into the PPEP and CDR with 2 weeks DRF with 1 month DDE approval.			v	vithin the documents.
																			Most Likely: Same baseline as the Best Case but inclusion of 1.5 month of comment resolution.	s .			
																			Worst case: 4 months to complete the AoA with 1 month approval. After the AoA approval IEC will need 2 weeks to incorporate into the PPEP and CDR with 2 weeks DRF with 1 month DDE approval. In the reviews an addition 2 months is required for comment resolution.				
TO3P2001	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Idaho Power Rates Increase	There is potential of an unforeseen increase in Annual evaluation determines that	Emerging	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ - \$	132,504 \$	416,440	0	0	0	Best Case: No cost increase to the project	Propose Transfer to DOE		7/10/2023	
						cost for Power supplied by Idaho Power which in turn, would increase the rates that IEC is charged by BEA.													Most Likely: 0.1 - 0.044 = 0.56 \$2,366,140.03 * 0.56 = \$132,503.84 Worst Case: 0.22 - 0.044 = 0.176 \$2,366,140.03 * 0.176 = \$416,440.65				
TO3P2002	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Power Infrastructure upgrade cost	Idaho Power is performing infrastructure upgrades for the Pronghorn Substation. BEA	Emerging	Threat	Transfer	Almost Certain	Critical	5-Very High	\$ - \$	4,350,000 \$	8,750,000	0	0	0	Best Case: No cost increase to the project Most Likely Case: (\$30M / 2years) * 29% = 4,350,000	Propose Transfer to DOE		7/10/2023	
						has been directed by DOE to allocate costs, of which IEC will be held responsible for a share of this cost. This presents potential unforeseen increased costs to IEC.													Worst Case: \$30M * 29% = 8,750,000				
TO3P2003	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Vendor Supplied Diesel Rates	There is potential of an unforeseen increase in Increased Costs of Services are	Emerging	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ - \$	132,504 \$	416,440	0	0	0	Best Case: No cost increase to the project	Propose Transfer to DOE		7/10/2023	
					Increase	cost for vendor supplied diesel. applied.													Most Likely: 0.1 - 0.044 = 0.56 \$2,366,140.03 * 0.56 = \$132,503.84 Worst Case: 0.22 - 0.044 = 0.176				
TO3P2004		DOE	DOE FPD	Perry, Scott	New Requirements From A New Revision o		Open	Threat	Transfer	Possible	Critical	4-High	\$ 3,000,000 \$	5,000,000 \$	7,000,000	96	192	288	\$2,366,140.03 * 0.176 = \$416,440.66 Cost and schedule impacts are estimated based on the cost and labor to revise the following documents:	Propose Transfer to DOE	7/11/2023	7/13/2023	
	Projects				DOE-STD-5506 Result in Safety Basis Changes	implementaion of a new revision of DDE-STD- 5506 with IEC. If IEC is required to implement this new revision, there may be significant changes to the current Safety Basis resulting in significant cost increases and schedule delays.													and labor to revise the following documents: RFP-DSA-0/RFT-TSR-03 for AMWTP SAR-4/TSR-4 for ARP SAR-103/TSR-103 for RH-TRU waste processing operations at INTEC SAR-103 Addendum A for RH-TRU waste storage and handling				
																			at INTEC PLN-1851 for on-site transport of TRU waste				
TO3P2005b	Project Wide	DOE	DOE FPD	Multiple CAMs	Line-Item Project Funding	Due to the amount of line-item projects being Impacts from line-item project worked at the Idaho Environmental Coalition funding causes limitations that	Open	Threat	Share	Almost Certain	Critical	5-Very High	\$ 1,000,000,000 \$	1,350,000,000 \$ 1,	700,000,000	900	1350	1800	Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE	11/20/2023	1/10/2024	lone
						worked at the idano Environmental Coalition (IEC), limitation of base scope execution may be experienced as a direct result of variability in funding, Inability to execute base scope under the end state contract model will result in longer durations required to reach the desired end-states. This will increase the overall costs of the Idaho Cleanup Project (ICP), and could impact staffing levels.																	
TRU014R2	D.2.03.35.04	DOE	DOE FPD	Byram, George	CH-TRU Waste Disposition: Unable to	IEC may not be able to certify and/or ship Waste cannot meet certification waste for disposal for course recent if	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 50,000 \$	500,000 \$	1,000,000	16	48	96	Best Case: 16 days X 10 hr. X 5 FTE X\$62.5/hr.	Propose Transfer to DOE	3/20/2022	7/19/2023	
					Certify/Ship Waste for Disposal at Waste Isolation Pilot Plant (WIPP)	waste for disposal, for several reasons: if WIPP's Waste Data System (WDS) were to fail, if WIPP's unable to transport waste, if CCP flam-gas sampling/data upload is not available, if the WIPP makes changes to their requirements or makes new interpretations of existing requirements, etc.													Most Likely: 48 days X10 hr. X 5 FTE X \$62.5/hr. (plus additional Fees) Worst Case: 96 days X 10 hr. X 5 FTE X \$62.5/hr. (plus additional Fees)				
TPLINTERS	D.2.03.32.04	DOE	DOE FPD	Loftus Nathor	CH-TRII Waste Disposition: Worth Installa	1 Changes to the WIPP requirements or new WIPP requires detailed acceptable	Open	Threat	Transfer	Rare	Moderate	1-Low	\$ 300,000 \$	500,000 \$	1,750,000	16	32	96	Best Case: 16 days Plus fees	Propose Transfer to DOE	3/20/2022	7/10/2023	
INDUIDK2	J.E.03.32.04	DOE	משב דרט	cortus, redtridh	LH-I-MU Waste <u>Usposition</u> : Waste isolator Pilot Plant (WIPP) Interpretations or Requirements Change	I changes to the wire'r requirements or new interpretations of existing requirements could result in a need to reprocess the waste, rework containers, or recertify waste that has already been certified in order to update the waste to the new requirements.		inredt	iransier	naie	mouer dte	TEOW	\$ 300,000 \$	300,000 \$	1,130,000	10	32	<i>5</i> 0	Best Case: 1o days Plus rees Most Likely Case: 32 days plus fees Worst Case: 96 days plus fees	repose mensiel to DUE	3/ 20/ 2022	1/120/2023	
TRU028	D.2.03.31.06	DOE	DOE FPD	Byrum, George	CH-TRU Waste Disposition: Waste Contains Overpack Availability Issues	er if commodities (slip sheets, TDOP and SWB) are limited and shipments cannot be completed as planned, then the need for overpack of waste containers into larger and larger overpacks increases and the overpacks may not be authorized for IVIPP plisposal.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 96,000 \$	192,000 \$	384,000	64	128	256	Best Case: 64 days x 10 hr./day x 4 people x \$75/hr. = \$96,000 Most Likely: 128 days x 10 hr./day x 4 people x \$75/hr. = \$192,000 Worst Case: 256 days x 10 hr./day x 4 people x \$75/hr. = \$384,000	Propose Transfer to DOE	4/24/2023	7/10/2023 N	None
						, se addionized for this r disposal.																	



TO3 Risk Register: DOE Transfer Risks

daho Cleanup Project Programmatic Risk Register

Cost Impacts Schedule Impacts (in days) Handling Risk Event Basis of Impacts Risk Owner IEC Risk Back-up Risk Title Best Case Most Likely Worst Case Trigger Event The high-level waste definition interpretation may impact the overall project strategy to process and dispose of interpretation requires the une overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing and conceptual designs for calcine processing. el Waste-Opportunity and conceptual designs for calcine processing). the The high-level waste definition interpretation may impact the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and concentual definition for children processing). CAL007TR2 D.3.02.30.08 Kimbro, Valerie Change in Definition Interpretation of Level Waste-Threat DOE DOE FPD Rare Critical 100,000 5 ropose Transfer to DOE 10/9/2023 and conceptual designs for calcine processing). Kimbro, Val

| CalcineVIT: Delays in External Approvals of Project efficiency and progress is dependent upon expedient response and support from external reviews and approvals of the RCRA delisting petition and other Lack of support in RCRA delisting petition or other programmatic documents. CAL033 D.3.05.31 DOE DOE FPD Likely Serious 64.000 S 128.000 S 192.000 32 Cost and schedule impacts are based on possible schedule 6/19/2023 7/10/2023 elays. Basis is estimated as follows: est Case - 32 days x 10 hr./day x 2 FTE x \$100/hr. = \$64k project related DOE owned documentation, Delays from lost Likely Case - 64 days x 10 hr./day x 2 FTE x \$100/hr. xternal project support during scheduled approval time rame(s) will impact scheduled delivery and increase cos orst Case - 96 days x 10 hr./day x 2 FTE x \$100/hr. = \$192k D.3.03.32.01 D.3.03.32.02 External Requirements are subject to change. Examples o external requirements are: DOE 0151.1C, OSHA, EPA, Hamilton, Rob RC Routines: External Requirement Cost to update programs, cost to implement the program and Propose Transfer to DOE FEMA, and state and local laws. When external requirements are modified, the project may be required to make significant equipment upgrades, supply employees with additional training, update work control etc., which could result in unforeseen costs and schedule events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary equipment, appliances, ardware, and/or software. 7/10/2023 D.6.02.32 DOE DOE FPD Anderson, Jade <u>Information Technology</u>: Supply Chain Likely 1,000,000 \$ opose Transfer to DOE Due to emerging local, regional, and/or international Serious Best Case: 8 days (plus extended contractor fees) lost Likely: 32 days (plus extended contractor fees) During installation of groundwater monitoring wells, gleing performed by USGS under DOE-ICP contract, there also well drilling equipment. NICDF006 D.4.06.3A.01 DOE DOE FPD Reese, Craig New ICDF Cell Definition: Potential Rare 75,000 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. 9/21/2022 7/10/2023 Well Drilling Equipment and Site Vorst Case: 8 days X 10 hr./day X 20 FTEs X \$75/hr. could impact the equipment, ground water, and/or surrounding area. This would require time and cost to move to another drilling site and to decontaminate ubcontractor equipment, resulting in an unforeseen xtension of the contract work. D.4.06.32.01 Reese, Craig

New ICDF Cell: Lowering the Cell Results in Design modifications were made to lower the ICDF cell berm (reducing visual footprint). Lowering the cell berm basalt is encountered. Takes longer 9/18/2023 Certain ost Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. introduces the increased potential of encountering basalt to excavate. during excavation. This will cause the excavation work to take longer than anticipated. If DOE-ICP/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 rould have to re-design the cell, requiring rotating the cell 90°, and excavating 7 feet deeper than currently Reese, Craig New ICDF Cell: Delays in DOE Approvals of Critical Decisions or Other Project Related expedient response and support from DOE for review and within the scheduled timeframe. Best Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Note From DOE: COMMENT ONLY/NO CHANGE IN RISK D.4.06.32.05 D.4.06.33.03 cuments pproval of Critical Decision points in the project life. orst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr. REGISTER: While this is a DOE-ID risk, it is incumben Extended approvals beyond scheduled approval time frame(s) will impact scheduled delivery and increase co upon IEC to deliver the supporting information, including baseline documentation, on a schedule to meeting the correct date for completing actions D.4.06.33.04 eading up to the approval of Critical Decisions.

NICDF037b	D.4.06.30	DOE	DOE FPD	Reese, Craig	New ICDF Cell: BEA Support Services Do Not Meet ICDF 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.	BEA power services do not provide power in a timely manner.	Open Three	at Shared	Unlikely	Minor	2-Low	\$ 60,000	\$ 240,00	0 \$ 2,640,4	4	16	176	Best Case: 4 days X 10 hrs./day X 20 FTEs X 575/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. Worst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Shared to DOE	2/2/2023		As of 9/18/2023 Note From DOE; This is an IEC risk in that it is obtaining services between contractors (IEC and BEA). This risk must be returned to IEC. IEC Response; Disagree - after re-evaluating and discussing with DOE, this will be a Shared risk with DOE/IEC. This is in response to the BEA services we can't secure another contractor for. We proposed this under Phase (lemail confirmation from Aaron Nebeker 5/31/2023, MODP00065) and it was accepted by DOE to be "Shared" risk. With that being said IEC will add this risk to their project risk register to carry in addition to the transfer risks. We will also update the mitigation action to show "Shared risk with DOE/IEC". Note From DOE: AGREE - Per Aaron N., as historical precedence ICP and IEC have shared this risk (or similar risks involving BEA) on other projects.
NICDF039b	D.4.06.34.05	DOE	DOE FPD	Reese, Craig	New ICDF Cell ² CD2/3 PMB higher than Phase 2 Plan	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 also planning two years of scope under Task Order 3 Phase 2 (FY24-FY25). 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 schedule than planned.	comes out with different costs	Realized Thre	at Shared	Possible	Serious	3-Moderate	\$ 250,000	\$ 500,00	0 \$ 750,0	32	64	96	Best Case: Additional 2 months needed for scope identified under FY24/25 time frame with additional \$250K. Most Likely: Additional 4 months needed for scope identified under FY24/25 time frame with additional \$500K. Worst Case: Additional 6 months needed for scope identified under FY24/25 time frame with additional \$750K.		7/10/2023		As of 9/18/2023 * Note From DOE; Delivery of a PMB in spring of FY 2024 will not support CD-2/3. The PMB is one of the documents/plans that will be included in the Independent Project Review (IPR) that must be completed prior to submitting and requesting Critical Decision 2.3 approval. Also, the cost for the ICDF Expansion Project is now known to a much greater confidence with the award of the contract to the construction contractor. The entire project is required to be planned for PMB and not differentiated into phases. Further, the PMB costs are an IEC risk, and the risk must be returned to IEC. Also, this type of risk should be covered by the Management Reserve. IEC Resonose; Disagree – This risk does not assume a new task order for ICDF and that the CD-2/3 deliverable which contains the PMB will differ than that shown in To3.2. This has been discussed with DOE. *Note From DOE: TALEY and CRAIG have agreed to Split this risk between DOE and IEC. Please update the risk register to include on both DOE and IEC. Ber supported to the Risk Assessment Report (RAR) being developed as part of the Critical Decision (CD) 2/3 documentation."
NICDF042	D.4.06.37 D.4.06.3B D.4.06.3C D.4.06.3F	DOE	DOE FPD	Reese, Craig	Continuing Resolutions	Continuing Resolutions end up extending into late FY24, we don't receive funding and it pushes out our ability to finish up the Excavation/Embankments and start Construction Activities for the Evap. Ponds.	Congress to approve.	Realize Three	at Transfer	Possible	Minor	2-Low	\$ 30,000	\$ 75,00	0 \$ 300,0	2	5	20		Propose Transfer to DOE.	3/1/2024	3/1/2024	
NICDF300	Project Wide	DOE	DOE FPD	Reese, Craig	Increased Share of Pension	There is a risk that the pension plan will require contributions that exceed what was planned for the ICDF period of performance. This would result in an increased labor cost associated with the additional pension adder.	ICDF is directed to increase pension contributions.	Realize Three	at Transfer	Almost Certain	Moderate	4-High	\$ 360,689	\$ 400,76	6 \$ 440,8	343 0	0	0	Best Case: 2 % ICDF Direct Labor - If total labor on project decreases by 10% Most Likely Case: 2% ICDF Direct Labor Worst Case: 2 % ICDF Direct Labor - If total labor on project increases by 10%	Propose Transfer to DOE.	3/1/2024	3/1/2024	
S1W002R2	D.5.01.32	DOE	DOE FPD	Burtenshaw, Shawna	NRF Naval Reactors: Supply Chain Delays and Cost Increases	Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel.	Emerging national and international events impact supply chain.	Open Three	at Transfer	Unlikely	Moderate	2-Low	\$ 150,000	\$ 300,00	0 \$ 960,0	5	10	32	Beet Case: 5 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$150,000 Most Likely Case: 10 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$300,000 Worst Case: 22 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$960,000	Propose Transfer to DOE	N/A	8/11/2022	
SNF033	D.1.04.01.10	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: DOE CD-1 Review Duration	The duration of the DDE review of CD-1 for Staging Facility could potentially extend longer than planned, thu pushing subsequent work scope.	EIR and CD-1 Review is delayed.	Open Three	at Transfer	Likely	Moderate	3-Moderate	\$ 120,000	\$ 180,00	0 \$ 270,0	16	24	36	Best Case: the schedule is impacted by 1 month (16 working days) and changes need to be made prior to CD-1 approval. Additional costs for 16 days x 10 hrs/day x 10 FTEs x \$75/hr. Most Likely Case: 2-month review delay (32 working days)		4/23/2023	7/10/2023	
SNF034	D.1.04.01.10	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: IEC CD-1 Submittal Date	The AoA changes project scope which causes delays in submittal of the CD-1 package which causes delays submittal of the CD-1 review, this could lead to losing ou position in queue for DOE Board Reviews. If this risk werr realized, it would subsequently delay successor activities within this project.		Realize Threa	at Transfer	Likely	Serious	4-High	\$ 58,840	\$ 95,04	0 \$ 121,8	41	58	75	and changes to CD-1 prior to approval. Additional costs for 24 Best Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and \$0,000 for subcontract design + 30day Most Likely: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and 80,000 for subcontract design + 60 days Worst Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and 100,000 for subcontract design + 90	Propose Transfer to DOE	4/23/2023	7/10/2023	
SNF044	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: Storage Regulatory Framework		In discussions with DOE and NRC, it is determined that the Staging Facility design must meet NRC requirements.	Open Three	at Transfer	Rare	Major	3-Moderate	\$ 100,000	\$ 250,00	0 \$ 500,0	64	96	208	Revise T&FR, SOW and require the subcontractor to fit the staging facility within NRC licensing Best Case: 4 months with a cost of 100,000 Most Likely: 6 months with a cost of 250,000 Worst case 1 year with a cost of 550,000	Propose Transfer to DOE	4/23/2023	7/10/2023	
SNF313	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	Staging Facility AoA Requirement CD-1	The Management Options for Spent Nuclear Fuel at the Idaho National Laboratory Site Integrated Project Team Analysis of Alternatives (AoA) Final Report finished January 2021 is not accepted for the Idaho Spent Nuclear Fuel Staging Facility (SNF-SF).	notified that the AoA was not accepted for the SNF-SF. Written	Realized Three	at Transfer	Almost Certain	Critical	5-Very High	\$ 180,000	\$ 288,00	0 \$ 342,0	80	104	144	Cost only includes IEC forecasted costs Best Case - 2 months to complete the AoA with 1 month approval. After the AoA approval IEC will need 2 weeks to incorporate into the PPEP and CDR with 2 weeks DRF with 1	Propose Transfer to DOE	2/21/2024	2/29/2024	The Preliminary Project Execution Plan and Conceptual Design Report must incorporate the results of the AoA within the documents.
T03P2001	Project Wide	DOE	DOE FPD	Blackford, Ty	<u>Global</u> : Idaho Power Rates Increase	There is potential of an unforeseen increase in cost for Power supplied by Idaho Power which in turn, would increase the rates that IEC is charged by BEA.	Annual evaluation determines that Idaho Power will be increasing their rates for the year.	Emerging Three	at Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,50	4 S 416,4	0 0	0	0	month DOE approval. Best Case: No cost increase to the project Most Likely: 0.1 - 0.044 - 0.56 \$2,366,140.03 * 0.56 - \$132,503.84 Worst Case: 0.22 - 0.044 - 0.176 \$2,366,140.03 * 0.176 = \$416,440.65	Propose Transfer to DOE		7/10/2023	
TO3P2002	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Power Infrastructure upgrade cost	t Idaho Power is performing infrastructure upgrades for th Pronghorn Substation. BEA has been directed by DOE to allocate costs, of which IEC will be held responsible for a share of this cost. This presents potential unforeseen		Emerging Three	at Transfer	Almost Certain	Critical	5-Very High	\$ -	\$ 4,350,00	0 \$ 8,750,0	000 0	0	0	Best Case: No cost increase to the project Most Likely Case: (\$30M / 2years) * 29% = 4,350,000 Worst Case: \$30M * 29% = 8,750,000	Propose Transfer to DOE		7/10/2023	
TO3P2003	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Vendor Supplied Diesel Rates Increase	increased costs to IEC. There is potential of an unforeseen increase in cost for vendor supplied diesel.	Increased Costs of Services are applied.	Emerging Three	at Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,50	4 \$ 416,4	0	0	0	Best Case: No cost increase to the project Most Likely: 0.1 - 0.044 = 0.56 \$2,366,140.03 * 0.56 = \$132,503.84 Worst Case: 0.22 - 0.044 = 0.176 \$2,366,140.03 * 0.176 = \$416,440.66	Propose Transfer to DOE		7/10/2023	

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TO3P2004	Multiple Projects	DOE	DOE FPD	Perry, Scott	New Requirements From A New Revision of DOE-STO-5506 Result in Safety Basis Changes	revision of DOE-STD-5506 with IEC. If IEC is required to	DOE Nuclear Safety mandates new version of DOE-STD-5506 be mplemented.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 3,000,000 \$	5,000,000	\$ 7,000,000	96	192	288	Cost and schedule impacts are estimated based on the cost and labor to revise the following documents: RPT-DSA-02/RPT-TSR-03 for AMWTP SAR-4/TSR-4 for ARP SAR-103/TSR-103 for RH-TRU waste processing operations at INTEC SAR-103 Addendum A for RH-TRU waste storage and handling at INTEC PLN-1851 for on-site transport of TRU waste		7/11/2023	7/13/2023	
TO3P2005b	Project Wide	DOE	DOE FPD	Multiple CAMs	Line-Item Project Funding	Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (IEC), limitation of base furscope execution may be experienced as a direct result of variability in funding, inability to execute base scope under the end state contract model will result in longer durations required to reach the desired end-states. This will increase the overall costs of the Idaho Cleanup Project (ICP), and could impact staffing levels.	unding causes limitations that	Open	Threat	Share	Almost Certain	Critical	5-Very High	\$ 1,000,000,000	1,350,000,000	\$ 1,700,000,000	900	1350	1800	Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE	11/20/2023	1/10/2024	None
TRU014R2	D.2.03.35.04	DOE	DOE FPD	Byram, George	CH-TRU Waste Disposition: Unable to Certify/Ship Waste for Disposal at Waste Isolation Pilot Plant (WIPP)		Waste cannot meet certification equirements for WIPP disposal.	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 50,000 \$	500,000	\$ 1,000,000	16	48	96	Best Case: 16 days X 10 hr. X 5 FTE X\$62.5/hr. Most Likely. 48 days X10 hr. X 5 FTE X \$62.5/hr. (plus additional Fees) Worst Case: 96 days X 10 hr. X 5 FTE X \$62.5/hr. (plus additional Fees)	Propose Transfer to DOE	3/20/2022	7/19/2023	
TRU016R2	D.2.03.32.04	DOE	DOE FPD	Loftus, Nathan	CH-TRU Waste Disposition: Waste Isolatio Pilot Plant (WIPP) Interpretations or Requirements Change	interpretations of existing requirements could result in a	WIPP requires detailed acceptable mowledge that does not exist and/or permit changes.	Open	Threat	Transfer	Rare	Moderate	1-Low	\$ 300,000 \$	500,000	\$ 1,750,000	16	32	96	Best Case: 16 days Plus fees Most Likely Case: 32 days plus fees Worst Case: 96 days plus fees	Propose Transfer to DOE	3/20/2022	7/10/2023	
TRU028	D.2.03.31.06	DOE	DOE FPD	Byrum, George	CH-TRU Waste Disposition: Waste Container Overpack Availability Issues	If commodities (slip sheets, TDOP and SWB) are limited and shipments cannot be completed as planned, then the need for overpack of waste containers into larger and larger overpacks increases and the overpacks may not be authorized for WIPP disposal.		Open	Threat	Mitigate	Possible	Critical	4-High	\$ 96,000 \$	192,000	\$ 384,000	64	128	256	Best Case: 64 days x 10 hr./day x 4 people x \$75/hr. = \$96,000 Most Likely: 128 days x 10 hr./day x 4 people x \$75/hr. = \$192,000 Worst Case: 256 days x 10 hr./day x 4 people x \$75/hr. = \$384,000	Propose Transfer to DOE	4/24/2023	7/10/2023	None