AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE	E OF PAGES
. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	 UISITION/PURCHASE REQ. NO.	5. PROJEC	T NO. (If applicable)
200041	See Block 16C				
S. ISSUED BY CODE		7. ADI	/INISTERED BY (If other than Item 6)	CODE 0	0701
M-Idaho Department of Energy Office of Environmental Mana Edaho Cleanup Project 1955 Fremont Avenue Edaho Falls ID 83415	agement	Idal 195	Department of Energy no Operations Office Fremont Avenue no Falls ID 83415		
. NAME AND ADDRESS OF CONTRACTOR (No., stree	t county State and 7/D Code)	lo _A	AMENDMENT OF SOLICITATION NO		
DAHO ENVIRONMENTAL COALITIO ttn: Jason Mack 00 William Northern Blvd ullahoma TN 373884729		9B. × 10/8/9	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER 0303321 DEM000061 0304223 FEM400000 3. DATED (SEE ITEM 13)	R NO.	
CODE T.O57T.NE3EM27	FACILITY CODE		9/08/2023		
CODE LQ5ZLNE3EM27	11. THIS ITEM ONLY APPLIES		· ·		
<u> </u>	nuired) MODIFICATION OF CONTRACTS/OR	RDERS. IT MO	DDIFIES THE CONTRACT/ORDER NO. AS	DESCRIBED IN	
B. THE ABOVE NUMBERED CONTRA appropriation data, etc.) SET FORT C. THIS SUPPLEMENTAL AGREEMEN X FAR 43.103(a) Bilate	IT IS ENTERED INTO PURSUANT 1		MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b). TY OF:	es in paying offic	ne,
D. OTHER (Specify type of modification					
. IMPORTANT: Contractor 🗆 is not	X is required to sign this documer	nt and return	1 copies to the iss	uing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION TEI: LQ5ZLNE3EM27 The purpose of this modification The purpose and Mission Cont	tion is to update	the Ri	sk Registers for Task	,	······································
ayment: R for Idaho .S. Department of Energy ak Ridge Financial Service .O. Box 6017 ak Ridge TN 37831 ontinued Except as provided herein, all terms and conditions of to 5A. NAME AND TITLE OF SIGNER (Type or print)			retofore changed, remains unchanged and NAME AND TITLE OF CONTRACTING OF		
			ce H. Ruiz		F7
KIMBERILI'SOUTHWICK SO	UTHWICK (Affiliate)	Б	GRACE RUIZ Date: 2024.08.29		16C. DATE SIGNED
(Affiliate dure of person authorized to sign) Date	te: 2024.08.29 10:47:45 -06	_{''00'} '''	(Signature of Contracting Officer)		00/29/2024

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 89303321 DEM000061/89304223 FEM400000/P00041
 2
 2
 2

NAME OF OFFEROR OR CONTRACTOR

IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F)
(A)	(B) Period of Performance: 10/01/2023 to 09/30/2031	(0)	(D)	(E)	(#)
	Change Item 00302 to read as follows(amount shown is the total amount):				
00302	CLIN 03 SUBTASK 0302 INTEGRATION AND MISSION CONTINUITY (TASK ORDER 3.2) Line item value is: \$693,840,275.00 Incrementally Funded Amount: \$408,112,444.93				693,840,275.00
	In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-3.2, Integration and Mission Continuity (see Attachments TO-3.2 DOE Transfer Risk Register Updates-Redline; TO-3.2 DOE Transfer Risk Reg Updates FY24 Q3-Incorporated; TO-3.2 Risk Reg Updates FY24 Q3-Redlined; and TO-3.2 Risk Reg Updates FY24 Q3-Incorporated). All other terms and conditions remain unchanged.				

From: Kreimann-Duane, Ashley A

To: Delegation of Authority; Salmon, Tony F; Southwick, Shawna A; Killpack, Jason D; Anderson, Jade M

Subject: Delegation of Authority - Jack MacRae, Sr. Director, Business Services & PCO

Date: Wednesday, August 28, 2024 1:19:38 PM

Attachments: <u>image001.png</u>

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: Thursday, August 29th, 2024 @ 6:00 a.m. Delegation Ends: Thursday, August 29th, 2024 @ 5:30 p.m.

Reason for Absence: Personal Leave

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: No 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 P00041 CLIN 03, Subtask 302 Task Order 3.2

TO3 Risk Register: DOE Transfer Risks

laho Cleanup Project Programmatic Risk Register

Cost Impacts Schedule Impacts (in days) Handling Risk Event Risk Impact Minor Best Case2 -150 IEC Risk Back-up Risk Description Trigger Event Risk Type Risk Rating Most Likely Worst Case Most Likely3 Worst Case The high-level waste definition interpretation may impact the overall project strategy to process and dispose of interpretation require el Waste-Opportunity the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an Department of Energy (DOE) to option, then portions or all of calcine may be eligible for his disposal alternative. This, consequently, may impact for the disposal of calcine waste. r reprioritize ongoing work (e.g., retrieval demonstrat and conceptual designs for calcine processing). CAL007TR2 D.3.02.30.08 DOE DOE FPD 3/20/2022 6/30/2024 rign level waste definition interpretation requires the 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 professional and conceptual designs for calcine professional. el Waste-Threat CAL033 D.3.05.31 DOE FPD Project efficiency and progress is dependent upon expedient response and support from external reviews 128,000 \$ 6/30/2024 petition or other programmatic documents. lays. Basis is estimated as follows: Best Case - 32 days x 10 hr./day x 2 FTE x \$100/hr. = \$64k and approvals of the RCRA delisting petition and other project related DOE owned documentation. Delays from external project support during scheduled approval time st Likely Case - 64 days x 10 hr./day x 2 FTE x \$100/hr. = /orst Case - 96 days x 10 hr./day x 2 FTE x \$100/hr. = \$192k ame(s) will impact scheduled delivery and increase cos 1014 version of DOE-STD-3009-2014, "Preparation of onreactor Nuclear Facility Documented Safety Analysis" to align with DOE-STD-3009-2014 (safety basis documents are sources to perform the updates and will cause delawate 6/30/2024 Work with DOE to implement a phased approach to minimize delays to other scope. roject Wide DOE DOE FPD Likely 100 Critical nstraints of the remaining time in Task Order 3 Phase 2.
Notes for long term impacts that are based on an nated cost and time of performing individual analyses revising 8 IEC SARs written to DOE-STD-3009, including of DOE-STD-3009). uired for new facilities or major modifications per DOE 0-1189. The worst case is based on direction to write to st Case: Transferring boxes to a FRC or NARA certified inmercial record storage facility. K.1.02.08.0 6/30/2024 t Likely: A Combination of Transferring 24K boxes and ring, digitizing, indexing and transferring records for rage at a NARA Federal Record Center or a NARAtizing 24K boxes tified commercial records facility. IEC would incur a nificant increase in cost to apply resources for griding 24k DOMES Orst Case: Digitizing and indexing all 48K boxes. Note these impacts are higher than represented in this risl Lie to Task Order Constraints. Full impacts can be found in orming this work to include hiring personnel and C's Recap Letter DOE-002. INTEC210 6/30/2024 D.3.03.32.01 DOE FPD Hamilton, Rob RC Routines: External Requirements External Requirements are subject to change. Examples of IEC is notified of changes made to 500,000 \$ Cost to update programs, cost to implement the program and Propose Transfer to DOI 5/18/2023 D.3.03.32.02 external requirements are: DOE 0151.1C, OSHA, EPA, external requirement ost to train personnel on the changes 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 lippage. events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary on acquire necessary to account necessary to acquire neces 6/30/2024 IT001 D.6.02.32 DOE DOE FPD Anderson, Jade Information Technology: Supply Chain Due to emerging local, regional, and/or international Likely 500.000 \$ 1.000.000 \$ 1.500.000 Best Case: 8 days (plus extended contractor fees) ropose Transfer to DOE 4/23/2023 lost Likely: 32 days (plus extended contractor fees)
/orst Case: 144 days (plus extended contractor fees) ardware, and/or software. D.4.06.3A.01 During installation of groundwater monitoring wells, g being performed by USGS under DOE-ICP contract, there 6/30/2024 Reese, Craig New ICDF Cell Definition: Potential ost Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. discovered on well drilling Well Drilling Equipment and Site is a potential for contamination to be discovered that orst Case: 8 days X 10 hr./day X 20 FTFs X \$75/hr. ould impact the equipment, ground water, and/or arrounding area. This would require time and cost to move to another drilling site and to decontaminate subcontractor equipment, resulting in an unforeseen extension of the contract work. Reese, Craig

New ICDF Cell: towering the Cell Results in Finding Basalt

Finding Basalt

Design modifications were made to lower the ICDF cell berm (reducing visual footprint). Lowering the cell berm introduces the increased potential of encountering basalt to excavate.

during excavation. This will cause the excavation work to NICDF007 D.4.06.32.01 DOE DOE FPD Open Transfe Minor 150,000 \$ 240,000 \$ 720,000 10 Best Case: 10 days X 10 hrs./day X 20 FTEs X \$75/hr opose Transfer to DOE 9/21/2022 6/30/2024 Certain ost Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. 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 yould have to re-design the cell, requiring rotating the cell 90°, and excavating 7 feet deeper than currently IICDF008R2 D.4.06.32.04 DOE FPD Reese, Craig New ICDF Cell: Delays in DOE Approvals of Project efficiency and progress is dependent upon CD Package Approval not received Likely Minor 240,000 \$ 2,640,00 Best Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr opose Transfer to DOE 6/30/2024 As of 9/18/2023 Note From DOE: COMMENT ONLY/NO CHANGE IN RISK REGISTER: While this is a DOE-ID risk, it is incumbent upon IEC to deliver the supporting information, including baseline documentation, on a schedule to D.4.06.32.05 Critical Decisions or Other Project Related expedient response and support from DOE for review and porton points in the project life. lost Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr. D.4.06.33.03 D.4.06.33.04 Extended approvals beyond scheduled approval time D.4.06.34.04 frame(s) will impact scheduled delivery and increase cos addition, if CD 2/3 is not approved before the mobilization of the subcontractor, the may be requ eeting the correct date for completing action ding up to the approval of Critical Decisions. solicit a new RFP. est Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely ase: 30 days X 10 hrs/dy X 20 FTEs X \$75/hrWorst Case: 32 ays X 10 hrs/dy X 20 FTEs X \$75/hr NICDF016 D.4.06.30 DOE FPD Reese, Craig ICDF New Cell: Supply Chain Delays and 300,000 cure or accurately estimate the cost and time vailable when needed• sary to acquire necessary materials, services, and synthetics not available w

NICDF037b	D.4.06.30	DOE	DOE FPD	Reese, Craig	New ICDF Cell: 8EA 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	Threat SI	Unlike Unlike	Minor	2-Low	\$ 60,00) \$ 240,00	\$ 2,640,00	90 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 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 1 (email confirmation from Aaron Nebeker 5/31/2023, MODP00065) and it was accepted by OEC 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: 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 (P724-F725). 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- Closed	Threat SI	Possib	le Serious	3-Moderate	\$ 250,00	\$ 500,00	\$ 750,00	32	64	96	Best Case: Additional 2 months needed for scope identified under PY24/25 time frame with additional \$250K. Most Likely: Additional 4 months needed for scope identified under PY24/25 time frame with additional 5500K. 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 isk must be returned to IEC. Also, this type of risk should be covered by the Management Reserve. *IEC Response: 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: TALLEY and CRAIG have agreed to split this risk between DOE and IEC. Please update the risk register to include on both DOE and IEC. Islt. Per Talley's email to Aaron N. on 9/14/2023: "This risk may end up going away during the finalization of 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.	Open	Threat Tra	ansfer Possib	le Minor	2-Low	\$ 30,00) \$ 75,00	\$ 300,00	00 2	5	20		Propose Transfer to DOE.	3/1/2024	6/30/2024	
NICDF043	D.4.06.3A.01	DOE	DOE FPD	Reese, Craig	ICDF New Cell: Independent Project Review (IPR) Corrective Actions Cause	Extensive corrective actions, as a result of the IPR, could delay CD-2/3 approval.	project as a result of implementing	Open	Threat Tra	ansfer Possib	e Minor	2-Low	\$ 30,00	75,00	\$ 150,00	00 2	5	10	Incomplete	Propose Transfer to DOE	5/1/2024	6/30/2024	
NICDF300	D.4.06	DOE	DOE FPD	Reese, Craig	Delays 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.	necessary corrective actions. ICDF is directed to increase pension contributions.	Realize	Threat Tra	ansfer Almos Certai		e 4-High	\$ 360,68	9 \$ 400,76	\$ 440,84	43 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	Propose Transfer to DOE.	3/1/2024	6/30/2024	
S1W002R2	D.5.01.32	DOE	DOE FPD	Burtenshaw, Shawna	NRF Naval Reactors: Supply Chain Delays and Cost Increases		Emerging national and international events impact supply chain.	Open	Threat Tra	ansfer Unlike	y Moderat	e 2-Low	\$ 150,00	\$ 300,00	\$ 960,00	5	10	32	Increases by 10% Best 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: 32 days X10 hrs./day X 2 crews (20 FTEs) X	Propose Transfer to DOE	2/10/2024	6/30/2024	
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 the Staging Facility could potentially extend is longer than planned, thus pushing subsequent work scope.	EIR and CD-1 Review is delayed.	Open	Threat Tra	ansfer Likely	Moderat	e 3-Moderate	\$ 120,00	\$ 180,00	\$ 270,00	00 16	24	36	\$75/hr. = \$960,000 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) and changes to CD-1 prior to approval. Additional costs for 24 days x 10 hr/day x 10 FTEs x \$75/hr. Worst Case: 4 months review delay. Additional costs for 36 days x 10 hr/day x 10 FTEs x \$75/hr.		4/23/2023	6/30/2024	
SNF034	D.1.04.01.10	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility; IEC CD-1 Submittal Date	The AnA 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 our position in queue for DCB 3004 Reviews. If this risk were realized, it would subsequently delay successor activities within this project. The Management Options for SNF at the INI. Site Integrated Project Team AoA is not accepted, causing a new AoA for the ID SNF-SF. The new AoA development causes the CD-1 package submittal preparation duration to extend beyond originally scheduled.	- CD-1 submittal date is missed, and - the ID SNF-SF loses our DOE HQ	Realize	Threat Tr	ansfer Likel Almos Certai	t	4-High	\$-58,8 \$-250,00				58	75	Best Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$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 day 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.	,	4/23/2023	6/30/2024	Consult schedule and forecasts with DOE ICP and HQ in our IPT. Maintain AoA schedule and maintain status updates in the schedule.
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 other words, the facility falls under 10 CFR 830 rather than 10 CFR 72.	is determined that the Staging	Open	Threat Tra	ansfer Rare	Major	3-Moderate	\$ 100,00	250,00	\$ 500,00	00 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	Propose Transfer to DOE	4/23/2023	6/30/2024	
SNF313	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility. 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 Closed	Threat Tr	ansfer Almo: Certai		5-Very High	\$ 180,00	288,00	\$ 342,00	00 80	104	144	Worst case 1 year with a cost of 250,000 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 month DOE approval. Most Likely. Same baseline as the Best Case but inclusion of 1.5 month of comment resolution. 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 DRR with 1 moroproarse into the PPEP and CDR with 2 weeks DRR with 1 moroproarse into the PPEP and CDR with 2 weeks DRR with 1	Propose Transfer to DOE	2/21/2024	6/30/2024	The Preliminary Project Execution Plan and Conceptual Design Report must incorporate the results of the AoA within the documents.
SNF322	D.1.04.01	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: AOA Recommendations Vary from the CDR	The new AoA recommendations differ from the current Conceptual Design Report (CDR).	Completion of the AoA requires the CDR to be revised.	Open	Threat Tr	ansfer Possib	e Serious	3-Moderate	\$ 100,00	\$ 500,00	\$ 1,000,00	30	60	120	month DDE approval. In the reviews an addition 2 months is required for comment resolution. Rework of the conceptual design and conceptual design report causing major rework. Subsequently the SDS and PEP may require revision as well. If there is a slight difference then the CDR can address it and is a mitigated risk. If the conceptual design report and AoA are drastically different the mitigated risk is to adjust the CDF as necessary.		4/11/2024	6/30/2024	If the recommendation is slightly different, the conceptual design report can write a reason for the conceptual design report position.

SNF327	D.1.02.36.07	DOE	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: Delay of Delivery of DOE Standard Canisters	Any unforeseen delays to the delivery of the DOE Standard Canisters would cause delays to the project work scope.	DOE Standard Canister fabrication not completed according to IEC/BEA schedule.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,000 \$	5,000,000	96	192	288	Pro	opose Transfer to DOE	4/11/2024	6/30/2024	Work with BEA to identify possible delays due to supply chain issues. Also mitigating by purchasing long lead items at risk to minimize impacts to schedule.
SNF328	D.1.02.36.11	DOE	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: Lack of Funding Causes Delays in Procurement of High Value Items	Lack of Funding Causes Delays in Procurement of Cask Storage System items consisting of a Hi-Star as well as a Multi-Purpose Cannister/basket, shield lid, and spacer	Congress/DOE does not provide appropriate funding.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 312,000	\$ 624,000 \$	1,248,000	96	192	284	Pro	opose Transfer to DOE	4/11/2024	6/30/2024	Work with DOE to place RRDP critical components as a priority for funding to allow procurement of items as scheduled.
SNF332	D.1.02.36.07	DOE	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: BEA Leak Testing Fails	BEA Leak testing of Welds on DOE Standard Canisters does not pass causing delays to the project.	Bell jar leak testing fails.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,000 \$	3,000,000	96	192	288	Pro	opose Transfer to DOE	4/11/2024	6/30/2024	BEA procurement of different seals to correct deficiencies to allow for successful leak testing. If alternative seals are not successful, BEA to correct design of Bell Jar.
TO3P2001	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: 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	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,504 \$	416,440	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 \$2,366,140.93 * 0.176 = \$416,440.65	opose Transfer to DOE	4/23/2023	6/30/2024	
TO3P2002	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Power Infrastructure upgrade cost	Idaho Power is performing infrastructure upgrades for the Pronghorn Substation. BEA has been directed by DDE allocate costs, of which IEC will be held responsible for a share of this cost. This presents potential unforeseen increased costs to IEC.	Increased Costs are applied.	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)* 25% = 4,350,000 Worst Case: \$30M * 25% = 8,750,000	opose Transfer to DOE	4/23/2023	6/30/2024	
TO3P2003	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Vendor Supplied Diesel Rates Increase	There is potential of an unforeseen increase in cost for vendor supplied diesel.	Increased Costs of Services are applied.	Emerging	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,504 \$	416,440	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 \$2,366,140.93 * 0.176 = \$416,440.66	opose Transfer to DOE	4/23/2023	6/30/2024	
TO3P2004	Multiple Projects	DOE	DOE FPD	Perry, Scott		DOE Nuclear Safety is driving the implementaion of a new revision of DOE-STD-5506 with IEC. If IEC is required to implement his new revision, here may be significant changes to the current Safety Basis resulting in significant cost increases and schedule delays.	version of DOE-STD-5506 be implemented.	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	opose Transfer to DOE	7/11/2023	6/30/2024	
ТОЗР2005Ь	Project Wide	DOE	DOE FPD	Multiple CAMs	Global: Une-Item Project Funding	Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (IEC), limitation of bas 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.	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: Pro	pposed Share to DOE	11/20/2023	6/30/2024	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)	IEC may not be able to certify and/or ship waste for disposal, for several reasons: If WIPP's Waste Data System (WDS) were to fail, if WIPP is 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.		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)	opose Transfer to DOE	3/20/2022	6/30/2024	
TRU016R2	D.2.03.32.04	DOE	DOE FPD	Loftus, Nathan	CH-TRU Waste Disposition: Waste Isolatio Pilot Plant (WIPP) Interpretations or Requirements Change	n Changes to the WIPP 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.	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	opose Transfer to DOE	3/20/2022	6/30/2024	
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 Pro 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	opose Transfer to DOE	4/24/2023	6/30/2024	None



CID 89303321DEM000061/89304223FEM400000, Mod P00041 CLIN 03, Subtask 302 Task Order 3.2

TO3 Risk Register: DOE Transfer Risks

Idaho Cleanu Updated: 8.19.	Project Progra 4	ammatic Risk	Register												Cost	Impacts	I	Sched	ule Impacts (in	days)	1				
Risk ID CAL007OR2	WBS D.3.02.30.08	Responsible Organization DOE	Risk Owner	IEC Risk Back-up Kimbro, Valerie	Risk Title Change in Definition Interpretation of High	Risk Description h-The high-level waste definition interpretation may impact	Trigger Event High level waste definition	Status Open	Risk Type Opportunity	Handling Strategy Transfer	Risk Event Likelihood Rare	Risk Impact	Risk Rating			st Likely	Worst Case \$ (80,000)		Most Likely3		Basis of Impacts	Mitigation Actions Propose Transfer to DOE	Date Identified 3/20/2022	Last update 6/30/2024	Notes None
					Level Waste-Opportunity	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 conceptual designs for calcine processing).	interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste.		5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						,,,,,,	(,,,	, (25,225)						3,3,3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
CAL007TR2	D.3.02.30.08	DOE	DOE FPD	Kimbro, Valerie	Change in Definition Interpretation of High Level Waste-Threat	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 conceptual designs for calcine processing).	interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste.	Open	Threat	Transfer	Rare	Critical	3-Moderate	\$ 8	80,000 \$	100,000	\$ 150,000	60	150	150		Propose Transfer to DOE	3/20/2022	6/30/2024	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 petition 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	6/30/2024	
DST300	Project Wide	DOE	DOE FPD	Perry, Scott	Indirects: IEC is Required to Implement DOE-STD-3009-2014	Nonreactor Nuclear Facility Documented Safety Analysis". This would require additional funding and reallocating resources to perform the updates and will cause delays to	update Documented Safety Analyses to align with DOE-STD-3009-2014 (safety basis documents are		Threat	Transfer	Likely	Critical	5-Very High	\$ 60	00,000 \$	2,000,000	\$ 2,600,000	100	208	308	Impacts for this risk have been reduced to fit in the constraints of the remaining time in Task Order 3 Phase 2. See Notes for long term impacts that are based on an estimated cost and time of performing individual analyses and revising 8 IEC SARs written to DOE-STD-3009, including any necessary subcontract labor. The best case is that writing to the 2014 version of DOE-STD-3009 would be only when required for new facilities or major modifications per DOE-STD-1189. The worst case is based on direction to write to the 2014 version regardless of the requirements in DOE-STD-1189.	Propose Transfer to DOE	5/10/2024	6/30/2024	Work with DOE to implement a phased approach to minimize delays to other scope.
IND300	K.1.02.08.07	DOE	DOE FPD	Southwick, Kimber		DOE requested an impact analysis for costs to implement DOE O 243.1C into the contract. This would require storing, digitizing, indexing and transferring records for storage at a NARA Federal Record Center or a NARA-certified commercial records facility. IEC would incur a significant increase in cost to apply resources for performing this work to include hiring personnel and purchasing the equipment necessary to perform the scans.	DOE 0 243.1c is incorporated into the IEC contract.	Open	Threat	Transfer	Likely	Critical	5-Very High	\$ 4,50	00,000 \$	6,750,000	\$ 12,150,000	0	0	0	Best Case: Transferring boxes to a FRC or NARA certified commercial record storage facility. Most Likely: A Combination of Transferring 24K boxes and digitizing 24K boxes. Worst Case: Digitizing and indexing all 48K boxes. *Note these impacts are higher than represented in this risk due to Task Order Constraints. Full impacts can be found in IEC's Recap Letter DOE-002.	Propose Transfr to DOE	5/10/2024	6/30/2024	
INTEC210	D.3.03.32.01 D.3.03.32.02	DOE	DOE FPD	Hamilton, Rob	RC Routines: External Requirements Change	External Requirements are subject to change. Examples of external requirements are: DOE 015.1.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.	IEC is notified of changes made to external requirements.	Open	Threat	Transfer	Possible	Major	4-High	\$ 25	50,000 \$	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	6/30/2024	
IT001	D.6.02.32	DOE	DOE FPD	Anderson, Jade	Information Technology: Supply Chain Issues for Server Refresh	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 equipment, appliances, hardware, and/or software.	Emerging national and international events impact supply chain.	Open	Threat	Transfer	Likely	Serious	4-High	\$ 50	00,000 \$	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	6/30/2024	
NICDF006	D.4.06.3A.01	DOE	DOE FPD	Reese, Craig	New I/OF Cell Definition: Potential Contamination of Groundwater Monitorin Weil Drilling Equipment and Site	g being performed by USGS under DOE-ICP contract, there	Unexpected contamination discovered on well drilling equipment.	Open	Threat	Transfer	Rare	Minor	1-Low	\$ 3	30,000 \$	75,000	\$ 120,000	2	5	8	Best Case: 2 days X 10 hr./day X 20 FTEs X 575/hr. 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.	Propose Transfer to DOE	9/21/2022	6/30/2024	
NICDF007	D.4.06.32.01	DOE	DOE FPD	Reese, Craig	New ICDF Cell: Lowering the Cell Results in Finding Basalt	Design modifications were made to lower the ICDF cell berm (reducing visual footprint). Lowering the cell berm introduces the increased potential of encountering basalt during excavation. This will cause the excavation work to take longer than anticipated. If ODE-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 would have to re-design the cell, requiring rotating the cell 90°, and excavating 7 feet deeper than currently estimated.	basalt is encountered. Takes longer	Open	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ 1!	50,000 \$	240,000	\$ 720,000	10	16	48	Best Case: 10 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: 48 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Transfer to DOE	9/21/2022	6/30/2024	
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. In addition, if CO 2/3 is not approved before the demobilization of the subcontractor, the may be required to solicit a new RFP.	CD Package Approval not received within the scheduled timeframe.	Realized	Threat	Transfer	Likely	Minor	2-Low	\$ 6	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	6/30/2024	As of 9/18/2023 Note From DOE: COMMENT ONLY/NO CHANGE IN RISK REGISTER: While this is a DOE-ID risk, it is incumbent upon IEC to deliver the supporting information, including baseline documentation, on a schedule to meeting the correct date for completing actions leading up to the approval of Critical Decisions.
NICDF016	D.4.06.30	DOE	DOE FPD	Reese, Craig	ICDF New Cell: 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.		Open	Threat	Transfer	Almost Certain	Moderate	4-High	\$ 1!	50,000 \$	300,000	\$ 960,000	5	10	32	Best Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely Case: 30 days X 10 hrs/dy X 20 FTEs X \$75/hrWorst Case: 32 days X 10 hrs/dy X 20 FTEs X \$75/hr	Propose Transfer to DOE	5/1/2024	6/30/2024	

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	Threat	Shared	Unlikely	Minor	2-Low	\$ 60,000	\$ 240,(300 \$ 2,6	440,000	4 10	176	Best Case: 4 days X 10 hrs./day X 20 FTE\$ X 575/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTE\$ X 575/hr. Worst Case: 176 days X 10 hrs./day X 20 FTE\$ X \$75/hr.	Propose Shared to DOE	2/2/2023	6/30/2024	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 conformation of the 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.
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.		Open	Threat	Transfer	Possible	Minor	2-Low	\$ 30,000	\$ 75,0	000 \$ 30	00,000	2 5	20		Propose Transfer to DOE.	3/1/2024	6/30/2024	
NICDF043	D.4.06.3A.01	DOE	DOE FPD	Reese, Craig	ICDF New Cell: Independent Project Review (IPR) Corrective Actions Cause Delays	Extensive corrective actions, as a result of the IPR, could delay CD-2/3 approval.	IPR findings cause delays to the project as a result of implementing necessary corrective actions.	Open	Threat	Transfer	Possible	Minor	2-Low	\$ 30,000	\$ 75,0	000 \$ 19	50,000	2 5	10	Incomplete	Propose Transfer to DOE	5/1/2024	6/30/2024	
NICDF300	D.4.06	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.		Realize	Threat	Transfer	Almost Certain	Moderate	4-High	\$ 360,689	\$ 400,7	766 \$ 4	140,843	0 0	0	decreases by 10% Most Likely Case: 2% ICDF Direct Labor Worst Case: 2 % ICDF Direct Labor - If total labor on project	Propose Transfer to DOE.	3/1/2024	6/30/2024	
S1W002R2	D.5.01.32	DOE	DOE FPD		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.		Open	Threat	Transfer	Unlikely	Moderate	2-Low	\$ 150,000	\$ 300,0	000 \$ 96	60,000	5 10	32	Increases by 10% Best Case: 5 days X10 hrs./day X 2 crews (20 FTEs) X 575/hr. = \$150,000 Most Likely Case: 10 days X10 hrs./day X 2 crews (20 FTEs) X 575/hr. = \$300,000 Worst Case: 32 days X10 hrs./day X 2 crews (20 FTEs) X 575/hr. = \$9500,000	Propose Transfer to DOE	2/10/2024	6/30/2024	
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 the Staging Facility could potentially-extend is longer than planned, thus pushing subsequent work scope.	EIR and CD-1 Review is delayed.	Open	Threat	Transfer	Likely	Moderate	3-Moderate	\$ 120,000	\$ 180,0	000 \$ 2	770,000	16 24	36	\$75/hr. = \$560,000 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) and changes to CD-1 prior to approval. Additional costs for 24 days x 10 hr./day x 10 FTEs x \$75/hr. Worst Case: 4 months review delay. Additional costs for 36 days x 10 hr./day x 10 FTEs x \$75/hr.		4/23/2023	6/30/2024	
SNF034	D.1.04.01.10	DOE	DOE FPD	Cotterell, Jaksen	SNF Staging Facility: IEC CD-1 Submittal Date	The Management Options for SNF at the INL Site Integrated Project Team AoA is not accepted, causing a new AoA for the ID SNF-ST. The new AoA development causes the CD-1 package submittal preparation duration to extend beyond originally scheduled.	A new AoA is required. CD-1 submittal date is missed, and the ID SNF-SF loses our DOE HQ reviews.	Realize	Threat	Transfer	Almost Certain	Serious	4-High	\$ 250,000	\$ 500,	000 \$ 1,0	000,000	41 5	3 75	Best Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and \$5,000 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 + 96 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 days Each portion of design will need 10% of the subcontractor cost for IEC to manage.	Propose Transfer to DOE	4/23/2023	6/30/2024	Consult schedule and forecasts with DOE ICP and HQ in our IPT. Maintain AoA schedule and maintain status updates in the schedule.
SNF044	D.1.04.01	DOE	DOE FPD		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 other words, the facility falls under 10 CFR 830 rather than 10 CFR 72.	is determined that the Staging	Open	Threat	Transfer	Rare	Major	3-Moderate	\$ 100,000	\$ 250,0	000 \$ 50	00,000	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	Propose Transfer to DOE	4/23/2023	6/30/2024	
SNF322	D.1.04.01	DOE	DOE FPD		SNF Staging Facility: AoA Recommendations Vary from the CDR	The new AoA recommendations differ from the current Conceptual Design Report (CDR).	Completion of the AoA requires the CDR to be revised.	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 100,000	\$ 500,0	000 \$ 1,0	000,000	30 60	120	Worst case 1 year with a cost of 500,000 Rework of the conceptual design and conceptual design report causing major rework. Subsequently the SDS and PEP may require revision as well. If there is a slight difference then the CDR can address it and is a mitigated risk. If the conceptual design report and AoA are drastically different the mitigated risk is to adjust the CDR as necessary.		4/11/2024	6/30/2024	If the recommendation is slightly different, the conceptual design report can write a reason for the conceptual design report position.
SNF327	D.1.02.36.07	DOE	DOE FPD		SNF Road Ready Project: Delay of Delivery of DOE Standard Canisters	Any unforeseen delays to the delivery of the DOE Standard Canisters would cause delays to the project work scope.	DOE Standard Canister fabrication not completed according to IEC/BEA schedule.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,0	5,0	000,000	96 19	2 288		Propose Transfer to DOE	4/11/2024	6/30/2024	Work with BEA to identify possible delays due to supply chain issues. Also mitigating by purchasing long lead items at risk to minimize impacts to schedule.
SNF328	D.1.02.36.11	DOE	DOE FPD	Tyson	SNF Road Ready Project: Lack of Funding Causes Delays in Procurement of High Value Items	Lack of Funding Causes Delays in Procurement of Cask Storage System items consisting of a Hi-Star as well as a Multi-Purpose Cannister/basket, shield lid, and spacer	Congress/DOE does not provide appropriate funding.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 312,000	\$ 624,0	000 \$ 1,2	48,000	96 19	2 284		Propose Transfer to DOE	4/11/2024	6/30/2024	Work with DOE to place RRDP critical components as a priority for funding to allow procurement of items as scheduled.
SNF332	D.1.02.36.07	DOE	DOE FPD		SNF Road Ready Project: BEA Leak Testing Fails	BEA Leak testing of Welds on DOE Standard Canisters does not pass causing delays to the project.	Bell jar leak testing fails.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,0	000 \$ 3,0	000,000	96 19	2 288		Propose Transfer to DOE	4/11/2024	6/30/2024	BEA procurement of different seals to correct deficiencies to allow for successful leak testing. If alternative seals are not successful, BEA to correct degran of Bell lar.
TO3P2001	Project Wide	DOE	DOE FPD	Blackford, Ty	<u>Giobal</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	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,5	504 \$ 4	16,440	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 = \$416,440.65	Propose Transfer to DOE	4/23/2023	6/30/2024	design of Bell Jar.
TO3P2002	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Power Infrastructure upgrade cost	Idaho Power is performing infrastructure upgrades for the 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 increased costs to IEC.		Emerging	Threat	Transfer	Almost Certain	Critical	5-Very High	\$ -	\$ 4,350,0	000 \$ 8,7	50,000	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	4/23/2023	6/30/2024	
TO3P2003	Project Wide	DOE	DOE FPD	Blackford, Ty	Global: Vendor Supplied Diesel Rates Increase	There is potential of an unforeseen increase in cost for vendor supplied diesel.	Increased Costs of Services are applied.	Emerging	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$ -	\$ 132,5	504 \$ 43	16,440	0 0	0	Best Case: No cost increase to the project Most Likely: 0.1 - 0.044 = 0.56 \$2,366,140.3 * 0.56 = 5132,503.84 Worst Case: 0.22 - 0.044 = 0.176 \$2,365,140.3 * 0.176 = 5416,640.66	Propose Transfer to DOE	4/23/2023	6/30/2024	
ТОЗР2004	Multiple Projects	DOE	DOE FPD			DOE Nuclear Safety is driving the implementation of a new revision of DOE-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.	version of DOE-STD-5506 be implemented.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 3,000,000	\$ 5,000,0	000 \$ 7,0	000,000	96 19	2 288	\$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: 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	6/30/2024	

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TO3P2005b	Project Wide	DOE	DOE FPD	Multiple CAMs	<u>Global</u> : Line-Item Project Funding	Due to the amount of line-item projects being worked at the Idaho 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.	funding causes limitations that	Open	Threat	Share	Almost Certain	Critical	S-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	6/30/2024	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)	IEC may not be able to certify and/or ship 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.	Waste cannot meet certification requirements for WIPP disposal.	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 50,000	\$ 500,000 \$	1,000,000	16	48		Best Case: 16 days X 10 hr. X 5 FTE X\$62.5/hr. Propose Transfer to DOE 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)	3/20/2022	6/30/2024	
TRU016R2	D.2.03.32.04	DOE	DOE FPD	Loftus, Nathan	CH-TRU Waste Disposition: Waste Isolatio Pilot Plant (WIPP) Interpretations or Requirements Change		WIPP requires detailed acceptable knowledge that does not exist and/or permit changes.	Open	Threat	Transfer	Rare	Moderate	1-Low	\$ 300,000	\$ 500,000 \$	1,750,000	16	32		Best Case: 16 days Plus fees Most Likely Case: 32 days plus fees Worst Case: 96 days plus fees	3/20/2022	6/30/2024	
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		Best Case: 64 days x 10 hr./day x 4 people x \$75/hr. = \$96,000 Propose Transfer to DOE 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	4/24/2023	6/30/2024	None



CID 89303321DEM000061/89304223FEM400000, Mod P00041 CLIN 03, Subtask 302 Task Order 3.2

TO3 Phase 2 Risk Register

Idaho Cleanup Project Programmatic Risk Register

Idaho Cleanup Proj Updated : 8.19.24		isk Register												Cost Impacts		Schedule Impacts (in days)				
		Responsible							Handlir	g Risk Event									Date	
	D.3.02.30.06	Organization IEC	Kimbro, Valerie		Calcine: Delay finalizing the CSSF 3116 Basis Document due to availability of DOE-EM and NRC to perform their reviews	Risk Description Finalizing the CSSF 3116 Basis Document may be delayed due to DOE- EM and NRC resouce availabily to perform their reviews.	planned in the Task Order 3 schedule.	Closed	reat Accep	t Likely	Serious	Risk Rating 4-High	\$ 50,00				Project has realized approximately 20 days of delay in FY 2022. because resources from DDE-Kin were unavailable (best case). It was assumed that project would realize the same delay from NRC (most likely case) and an additional 20-day delay for unforseen circumstances as the worst case. Best Case - 20 days X 10 hr/day X 2.5 FTE X \$100/hr = \$50KMost Likely Case - 40	Mitigation Actions N/A	12/12/2022	
	D.3.02.30.13	IEC	Kimbro, Val			Loss of qualified specialty resources could result in schedule delays.			reat Accep		Major	4-High	\$ 48,00				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. Worst Case: 80 days X 10 hr. X 2 FTE X \$100/hr.	N/A		6/30/2024
CAL019	D.3.02.30.17	IEC	Kimbro, Val		Scale Mockup Post-Erosion Testing	Equipment failure at the full-scale mockup post-erosion testing may cause unexpected costs and schedule delays. The purpose of the T03.1 erosion testing is to transfer the equivalent amount of material that is in CSSF 1 (220 cubic meters) through the full-scale mockup. After erosion testing is complete, an outage will be performed to lack of existing or incomplete CPP-691 documentation may create a	system.	Closed	eat Mitigat		Serious	2-Low	\$ 101,00				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 downtime x 10 hr./day x 4 FTE x 575/hr. plus 16 days to install x Cost and schedule impacts are based on additional field			6/30/2024 6/30/2024
	D.3.05.31.04	IEC	Kimbro, Val		Field Verification	back of vasting or incomplete CPP-691 documentation may create and 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 sting study. - tack of existing or incomplete CPP-691 documentation may create		Open Thr			Minor						investigations @ CPP-691 requiring additional time and resources. Basis is estimated as follows: - Best Case - 4 days x 10 hr./day x 2 FTE x \$100/hr Most Likely Case - 8 days x 10 hr./day x 4 FTE x \$100/hr. plus Cost and schedule impacts are based on additional field	N/A	, , , , ,	6/30/2024
					3D Model	data gaps when updating drawings, performing field verifications, and validating a 3D model of the facility. This may impact the completeness of the Siting Study where additional work will be necessary to fill the data gaps in order to have a complete siting study.											investigations @ CPP-691 requiring additional time and resources. Basis is estimated as follows: - Best Case - 4 days x 10 hr./day x 2 FTE x 5100/hr. - Most Likely Case - 8 days x 10 hr./day x 4 FTE x 5100/hr. plus a subsurface investigation (4 days x 1 ft \ \frac{1}{4} \text{day} x \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
CAL023	D.3.05.31.04	IEC	Kimbro, Val	N/A	<u>CalcineVIT</u> : Siting Study Fails to Identify Viable Location for Calcine Processing Facility	The Siting Study will evaluate potential locations (existing and y 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 identified or recommended (e.g., due to the outcome of a cost-	A viable location to install a calcine processing facility is not identified.	Open Thr Closed	reat Accep	t Unlikely	Moderate	2-Low	\$ 64,00	\$ 128,000	\$ 350,000	32 32 45	Cost and schedule impacts are based on reevaluating the Siting Study with a new set of criteria and/or additional data. Basis is estimated as follows: - Best Case - Reassess Siting Study based on new criteria and	N/A	N/A 4/23/2023	6/30/2024
CAL024	D.3.05.31.04	IEC	Kimbro, Val	N/A	CalcineVIT: Loss of Specialty Resources	loss of qualified specialty resources could result in schedule delays.	Notification of intent to leave or retire.	Open Thr	reat Accep	t Likely	Major	4-High	\$ 48,00	\$ 80,000	\$ 160,000	48 80 80	Cost and schedule impacts are based on the time it takes to backfill a position. Basis is estimated as follows: - Best Case - Backfill one position (48 days x 10 hr./day x 1 FTE x 5100/hr.)	N/A	N/A 4/23/2023	6/30/2024
CAL026	D.3.05.31.05	IEC	Kimbro, Val		Under BEA SOW	It may be necessary to equalize vendor work that is being performed under the BEA SOW. If it is determined the results are inadequate, then additional work by the wendors may be necessary. Scope is included in TO3.2 to review vendor reports to determine their adequates; awaill as having the moderns reports and distinguish work.	determined to be inadequate.		reat Accep		Serious	4-High	\$ -	\$ 500,000			Cost and schedule impacts are based on whether equalizing of the vendor work is required. Basis is estimated as follows: - Best Case - Cost and schedule stay as planned and any impact will be managed internally by the project. - Most I likely Case - Additional 3 months and \$350K each for	N/A		6/30/2024
CAL028	D.3.05.31.04	IEC	Kimbro, Val	N/A	<u>CalcineVIT</u> : Calcine Simulant Manufacturing	Vendors are available to manufacture calcine simulant. However, it has not been confirmed whether the available vendors can produce a calcine simulant that will have the required chemical and physical properties for the treatment studies. The required chemical and physical properties will be identified during the simulant study activity planned in FY 2023.	required chemical and physical properties for the treatment studies.	Open Thr Closed	reat Accep	t Unlikely	Minor	2-Low	\$ 100,00	\$ 200,000	\$ 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 as follows: - Best Case - Vendor cost to retool \$100K and no impact to schedule - Most Likely Case - Vendor cost to retool \$200K and 1 month delay to schedule - Worst Case - Vendor cost to retool \$400K and 2 months delay to schedule	N/A	4/23/2023	6/30/2024
CAL029	D.3.05.31.05	IEC	Kimbro, Val	N/A		d EC is briging in wendors that are performing work under the BEA SOW. Scope to rowiew wonder reports to determine their adequacy and subsequently equalize the two new vendors with the current established wondors is included in 1022. However, if the new vendors' work is determined to be adequate, then planned scope to equalize these vendors work may not be necessary.	Vendor work that is being performed under the BEA SOW is determined to be adequate.	Open Oppor	tunity Accep	Unlikely	Minor	2-Low	\$ (2,000,00)) \$ (100,000	s -	(64) (32) 0	Cost and schedule impacts are based on whether equalizing of the vendor work is required. Basic is estimated as follows: - Best Case - Equalization is minimal and the vendor is only required to produce documentation, resulting in 52M under budget and 4 months ahead of scU6/SVTPResdule. - Most Likely - Equalization is research budget and 2 months ahead of schedule; - Worst Case - Cost and schedule stay as planned and any impact will be managed internally by project.	N/A	4/23/2023	6/30/2024
CAL030	D.3.05.31.05	IEC	Kimbro, Val		Relationships and Resources		Business relationship and resources are available at BEA that are not readily available to IEC.	Open Oppor	rtunity Accep	t Likely	Minor	2-Low	\$ (432,00	0) \$ (216,000	\$ (72,000)	(48) (24) (8)	Cost and schedule impacts are based on BEA supporting the scope of work and having a positive impact on the schedule. Basis is estimated as follows: - Best Case - 48 days x 10 lbr ,/dayx 4 FEE x \$225/hr. - Most Likely Case - 24 days x 10hr ,/dayx 4 FTE x \$225/hr. - Worst Case - 8 days x 10 hr ,/dayx 4 FTE x \$225/hr.	N/A	N/A 4/23/2023	6/30/2024
CAL032	D.3.05.31.02	IEC	Kimbro, Val	N/A	GalcineVII: Information is insufficient to Prepare a Delisting Petition	Submitting a delisting petition has been determined to be a viable strategy to pursue and it is assumed the necessay information for a delisting petition is sufficient after a preliminary review of the delisting process, regulatory requirements, previous delisting in petitions, calcine data, and the calcining process. If the information is not sufficient, then preparing a delisting petition for submission to the Idaho DRQ and U.S. EPA may be delayed due to time required to fill any data gaps.	Insufficient information to prepare a calcine delisting petition.	Realized Thr	eat Accep	t Unlikely	Moderate	2-Low	\$ 84,00	0 \$ 192,000	\$ 288,000	16 32 48	Cost and schedule impacts are based on possible schedule delays that may be realized. Basis is estimated as follows: - Best Case One month schedule delays and external analysis are required (16 days to identify and evaluate additional data x 10 hr./day x 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./day x 0.5 FTE x 575/hr. and 2.5 FTE x 5225/hr.) - Worst Case Three month schedule delay and external analysist are (48 days to Identify and evaluate additional data x 10 hr./day x 0.5 FTE x 575/hr. and 2.5 FTE x 5225/hr.)	N/A	N/A 4/23/2023	6/30/2024
CAL301	D.3.02.30.02	IEC	Kimbro, Valerie	Kimbro, Valerie	Calcine: Debay finalizing the Draft 3116 Basis Document due to availability of resources (external to IEC)	Finalizing the Draft CSSF 3116 Basis Document as scheduled in T03.2 may be delayed because of the availability of resources (external to IEC) to perform their roles in the review of the document.	Resources (external to IEC) are not available to perform their roles in the review of the Draft CSSF 3116 Basis Document.	Open Thr	reat Accep	t Rare	Minor	1-tow	\$ 12,50	\$ 25,000	\$ 50,000	5 10 20	Project realized approximately 20 days of delay in FY 2022 because resources external to IEC were unavailable. However, resources are now available, and this should be considered the worst-case scenario. As such, it was assumed the project would realize 5 days of delay as the best case and 20 days as the worst-case. Additionally, schedule delays realized by this activity should be categorized as moderate to low, regardless of the cost and schedule impacts, because the decision in this document can be aligned with DDE's commitment to remove calcine from a from a bin set and close the facility. Basis for the cost and schedule impacts are as follows:	N/A	N/A 8/19/2024	8/19/2024
CC007	D.1.21.30.16	IEC	Biorn, Scott	N/A	<u>Core Car:</u> Operational Readiness Review (ORR) is Determined to Be Required	If DOE directs IEC to perform an Operational Readiness Review in addition to a Readiness Assessment, it would cause schedule delays to perform.	DOE directs additional readiness activities prior to releasing operations.	Open Thr	reat Mitigal	e Unlikely	Major	3-Moderate	\$ 680,00	5 1,030,000	\$ 2,060,000	64 96 208	Best Case: 66 days X 10 hr. X 11.07 FTEs X 596/hr. Most Likely 96 days X 10 hr. X 11.07 FTEs X 596/hr. Worst Case: 208 days X 10 hr. X 11.07 FTEs X 596/hr.	Engage DOE SMEs for SAR revision, engineering analysis and design, nuclear and criticality safey analysis, and operational procedure development to ensure DOE is comfortable with the design and process.	N/A 4/23/2023	6/30/2024
CC024	D.1.21.30.05	IEC	Biorn, Scott	N/A	Core Car: Circular Saw Requires Further Research and Development Beyond Prototype 2	Circular saw test objectives or acceptance criteria are not met requiring a change in cutting method or major redesign or further prototype testing of the saw.	Circular saw DOE-ICPs not pass test objectives or acceptance criteria in prototype test report.	Open Thr	reat Accep	t Rare	Critical	3-Moderate	\$ 1,658,04	\$ 3,569,520	\$ 5,385,960	96 208 314	Best Case: 96 days X 10 hr. X 16.5 FTEs X 596/hr. (+5137,400) Most Likely. 208 days X 10 hr. X 16.5 FTEs X 596/hr. (+5274,800) Worst Case: 314 days X 10 hr. X 16.5 FTEs X 596/hr. (5412,200) In addition there is a need for contract extension of 522,900/month	N/A	N/A 4/23/2023	6/30/2024
CC026	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott	Core Remnants (Including Transport Equipment) Do Not Meet the WAC for	Physical characteristics of the core remnants or shipping equipment does not meet the Waste Acceptance Criteria (WAC) for ICDF.	INTEC WGS Waste Stream Determination is completed.	Open Thr	reat Accep	t Possible	Minor	2-Low	\$ 10,00	50,000	\$ 70,000	8 16 16		N/A	2/10/2024	6/30/2024
CC027	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott	Disposal at ICDF Department of Energy determines the Core Car Project is a Major Modification	Department of Energy determines the Core Car Project meets the criteria of a Major Modification prior to the approval of SAR-113 Revision 2.	DOE directs SAR-113 Revision 2 format be in compliance with DOE Order 3009-2014	Open Thr	reat Accep	t Rare	Critical	3-Moderate	\$ 89,18	\$ 114,824	\$ 1,472,794	80 103 160	Best Case: 80 days x 10 hrs/day x 2 FTEs x 555,74/hr = \$89,184 Most Likely: 103 days x 10 hrs/day x 2 FTEs x 555.74/hr = \$114,824 Worst Case: 160 days x 10 hrs/day x 9 FTEs x \$102.28/hr = \$1,472,794	N/A	2/10/2024	6/30/2024
CC300	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott	Engineering/Safety Analysis Determines Core Cannot be Safely Removed From RSC or Processed	Design/Safety analysis determines the core cannot be safely removed from the SSC and transported to the laydown station without extensive modifications to the equipment/pool/process.	Completion of drop/safety analysis reveals scenario(s) that result in unacceptable risk or consequence.	Open Thr	reat Mitigat	e Possible	Critical	4-High	\$ 5,120,00	5 7,000,000	\$ 8,000,000	238 309 412		Add mechanically fasten to boration to ensure the core can be safely moved from the BSC to the lay down system and safely processed.	3/1/2024	6/30/2024 On 2/17/23 NNL notified IEC engineering of a concern that will require an attendative core handling strategy with additional engineered control. If the core drop analysis determines additional controls are required to safely remove the core from the SC3 and transfer it to the laydown system, this kind be realized. Cost and solicious impacts with be dependent upon analysis results and the new strategy/controls required to move the core.

CC301	D.1.21.30	IEC	Biorn, Scott	Biorn, Scott Hydrogen Levels Inside the Shipping Shield Exceed HAD Limits	High hydrogen gas levels between the shipping shield and the RSC could indicate water inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of the RSC will be required,		Open	Threat	Accept Po	ossible Ser	ious 3-Mode	\$ 374,000 \$	534,500	\$ 695,00	0 8	12 16	INCOMPLETE	N/A		3/1/2024	6/30/2024	Perform drop analysis to bound shipping shield lid impacts to Railcar/shipping shield/RSC prior to the arrival of the railcar.
					potentially requiring a purge of the RSC to meet HAD requirements.																	Perform revision to CSE to incorporate mitigations
					(RSC sampling will require removal of the shipping shield lid.)																	required by drop analysis. Procure scaffolding and tent materials to be available to
CERCLA001	D.4.05.30.09	IEC	Whitmore, Erik	N/A <u>CERCLA</u> : Evaporation Pond Liner Damage	Existing CERCLA Evaporation liner tears which would require subcontractor support to complete repairs.	Existing liner is damaged.	Open	Threat	Mitigate Ur	nlikely Mod	lerate 2-Lo	w \$ 62,532 \$	312,658	\$ 468,98	7 0	0 0	No schedule delays as all other work associated would contin while repairs are done.	e Allocation for repairs for material failure of the pond linear, similar to currently existing	N/A	4/23/2023	6/30/2024	address this risk.
																		situation				
ICDF001	D.4.05.31.03	IEC	0	7 d David Miles of Control Miles of Cont	If a clean of falls is all and a second of the contract of the		0	Thomas	Accept L	that Car	4.00	gh \$ 67,240 \$	341,000	\$ 511,00	0 30	60 90	Equipment Costs per DCES sheet / Lease Rates for Equipment	N/A	N/A	4/22/2022	6/30/2024	
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 to procure a replacement. This equipment includes but is not limited to; road graders, excavtors, front end loaders, diesel fuel trailer, wate	loaders, diesel fuel trailer, water trucks, hook trucks, er telehandlers, pumps, liners, Digital Control System Equipment,	Open	Inreat	жссері і	ikely Ser	ious 4-Hip	5 67,240 \$	341,000	\$ 511,00	30	60 90	Total \$81,845 - 20% Equipment Potential Failures - Daily Rates 20% Higher than Monthly Rates / ICDF Contamination Zone Ri	k	NA	4/23/2023	6/30/2024	
					trucks, hook trucks, telehandlers, pumps, liners, Digital Control System Equipment, and Waste processor.	and Waste processor) necessary to perform operations.											of Leased Equipment - Lease to Buy / Work Case would be the D9N Dozer Lease \$33,000					
ICDF002	D.4.05.31.03	IEC	Orme, Jason	Zovi, Bruno ICDF Ops and Maintenance: Treatment, Storage, and Disposal Facility (TSDF) Closure	Treatment, Storage, and Disposal Facility (TSDF) is unable to receive waste, transportation of that waste will be delayed. It may then become necessary for the project to incorporate actions to recover	TSDF discontinues receiving of waste.	Open	Threat	Mitigate L	ikely M	nor 2-Lo	\$ 79,200 \$	118,800	\$ 158,40	8	12 16	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.) Most Likely Case: 12 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$100/hr. + OT = \$100/	Implement the following possible mitigations: - Upon TSDF resuming operations, shipment(s) will commence and schedule will		4/23/2023	6/30/2024	
					schedule.												= \$165/hr.) Worst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr.+ OT = \$165/hr.)	be recovered by working overtime.				
																	, , , , , , , , , , , , , , , , , , , ,					
ICDF003	D.4.05.31.04	IEC	Orme, Jason	Zovi, Bruno ICDF Ops and Maintenance: Waste Containe Treatment, Storage and Disposal Facility (TSDF) Certification Failure	er During the verification process, if a waste container(s) is found to not be in accordance with the NNSSWAC, the waste will need to be reworked.	 A container(s) is identified as damaged, packaged incorrectly, containing uncertified waste, containing prohibited items, etc. 	Open	Threat	Mitigate L	ikely M	inor 2-Lo	\$ 54,000 \$	81,000	\$ 108,00	0 4	6 8	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$75/hr.+ OT = \$112.50/hr.) Most Likely Case: 612 days x 10 hr./day x 6 FTEs x (\$75/hr.+ O'	Implement the following possible mitigations: - After Issues are corrected we will reevaluate and certify waste. Overtime will be worked	N/A	4/23/2023	6/30/2024	
																	= \$112.50/hr.) Worst Case: 16 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT = \$112.50/hr.)	to recover schedule.				
INDRP001	K.1.03.03.08	IEC	Henry, Jennifer	Henry, Jennifer Radiation Protection: Spare Rad Instrument	IEC has several cargo containers at the projects that are filled with old	d Spares are determined to be disposed under a strict timeline.	Open	Threat	Accept Almo	st Certain Cri	tical 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	N/A		9/11/2023	6/30/2024	
				Disposai	radiological instruments. The instruments are currently being kept fo use as spare parts to keep instruments running until older units can be replaced. Once old instruments are replaced, the spare												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					
					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	d											from current projects such as ARP. Additionally there would be demo on some buildings as there would be removal in some locations.	2				
					metals used. If the project is directed to dispose of the spare instruments under strict disposal timelines, the amount of spares to																	
					be disposed of could potentially raise a need to become its own identified work scope with specific allocated resources to complete the work.																	
INTEC011R2	D.3.03.32.02	IEC	Baisch, Kasey		A transformer failure can cause an unscheduled power outage with		Open	Threat	Accept Po	ossible M	inor 2-Lo	w \$ 250,000 \$	545,600	\$ 2,578,00	0 48	96 160	Best Case- transformer fails on double end fed piece of	N/A		3/20/2022	6/30/2024	
				Unscheduled Electrical Outage	long repair times. Transformers can require long procurement times depending on the size needed. All production could halt within the affected facility due to a lack of electrical power.	exposure to harsh outdoor weather conditions without testing											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 nev					
																	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					
INTEC037R2	D.3.03.38.06	IEC	Wilcox, Christopher	Wilcox, INTEC Miscellaneous Paving: Excavation	Excavation reveals unidentified objects and/or utilities resulting in a	An unknown utility or object is discovered during excavation.	Open	Threat	Mitigate Ur	nlikely M	nor 2-Lo	w \$ 8,000 \$	8,000	\$ 96,00	0 1	1 12	LABOR COST: 160 days X 12 hr./day X 9 FTE X \$100/hr. DISPLACED WORKER COST: 100K Based on work history of similar projects for number of	Check weather before hand and have		3/20/2022	6/30/2024	
				Christopher Uncovers Unanticipated Objects	stop work to determine a any additional remediation prior to proceeding with excavation.												FTEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/h					
	D.3.03.38.06	150		NET AND A LONG							21		0.000							2 /20 /2022	s too tooo a	
			Wilcox, Christopher	Christopher 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			nor 2-Lo	\$ 8,000 \$	8,000			2 16	Based on work history of similar projects for number of FTEEstimated values are:# Days x 10 hrs/day x 8 FTE x \$100/h	provided.			6/30/2024	
INTEC041R2	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita INTEC 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 currently operated system are not readily available as it is an outdated	Outdated DCS equipment fails upon use.	Open	Threat	Mitigate Po	ossible Cri	tical 4-Hi	\$ 232,000 \$ 250,000	\$ 264,000 \$ 300,000	\$ 296,0 \$ 500,0		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 awarded, plus designing period, that would cost three to six	Work with engineering to prioritize high risk equipment and replace them first.		3/20/2022	6/30/2024	
					system.												months delay on the job.Plus extra cost to the outside company to complete the design. For activity's 1030 and 1050 the SOWs are in approval status and it has been quoted that					
																	the costs of both risks combined will be \$200,000K. The supplemental is 82 days.could also cause					
																	issues depending on availability. So best case is \$ 200K \$250K on days. The other 2 risks 1010 and 1040 are based on labor-from our software engineers. Those risks combine for a total	t				
																	of 16 Days X 10 hour X 2 FTEs X \$100=\$32,00032 X 10 X 2 X \$100=\$64,00048 X 10 X 2 \$100=\$96,000					
INTEC045R2	D.3.03.38.07	IEC	Miller, Zeena	Miller, Zeena INTEC CPP-666 Anex HVAC Upgrades:	The risk of asbestos being discovered during demo and	Asbestos was discovered during demolition and installation.	Open	Threat	Mitigate Po	ossible Mod	lerate 2-Lo	w \$ 112,000 \$	224,000	\$ 336,00	0 14	28 42	Since demo is proposed to be completed by force account, the	s Issue a work order early on the process to		3/20/2022	6/30/2024	
			Wilcox, Christopher	Wilcox, Christopher Discovery of Asbestos	installation requires additional controls.												will reduce our cost of treating asbestos (trained staff). At this point it is proposed to be probably two weeks of working day delay. Plus expenses, - 14 days X 10 hr/day X 8 FTE X \$100/hr2					
INTEC059R2	D.3.03.39.02	IEC	Lords, Darin	Lords, Darin Emergency Communication System Alt #1:	Existing ECS wireless system failure causes the work to be stopped-	Failure of the INTEC ECS which stops the fire panel conversion	Open	Threat	Accept U	nlikely Ser	ious 2-Lo	w \$ 30,000 \$	180,000	\$ 270,00	0 30	60 90	days42 Days Best - 30d x 10 h/d x 1fte x 100/hr = 30,000 Lik - 60d x10h/d			3/20/2022	6/30/2024	
	D.3.03.39.02	IEC	Kelly, Patrick	Kelly, Patrick ECS wireless system failure.	and impacts the accomplishment of the fire panel conversion process Required BEA reprograming at the Central Fire Station for each ECS	s. work progress and testing.					erate 2-Lo		90,000			30 60	x3fte x 100/hr = 180,000 Wo - 90d x 10h/d x 3fte x 100/hr =270,000 Best - 14d x 10 h/d x 1fte x 100/hr = 14,000 Lik - 30d x10h/d	the system.			6/30/2024	
Z	3.03.33.02		Kelly, Patrick	Kelly, Patrick BEA reprograming was not completed in a timely manner.			Open	cat		,	2-10	14,000	50,000	. 120,00		00	x3fte x 100/hr = 90,000 Wo - 60d x 10h/d x 2fte x 100/hr =120,000	have needed necessary documentation in place to allow coordination between IEC and		-,-0,2022	-,50,2024	
INTEC067R2		150	Howell, Jonathan	Howell Josephan INTEC Crane Hogrado: Materials costs exceed					A	ikely Mod	lerate 3-Mode	erate \$ 375,000 \$	500,000	\$ 625,00	0 0	0 0	Received budgetary quote from PaR for controller system tha	BEA for needed programing. NA		7/25/2022	6/30/2024	
	D.3.03.3C.02	IEC		HOVEL, JOHNSTON HATEC CIAILE OPERAGE. IVIALEI IAIS COSIS EXCEE	Material price points in DCES are considered a ROM estimate and		Open	Threat	Accept L												1	
1	D.3.03.3C.02	IEC	Klukis, Venita	Klukis, Venita estimates.	ed Material price points in DCES are considered a ROM estimate and have no basis of estimate. Controller, hook, and linear actuator lead times are unknown.		Closed	Threat	жссері і				300,000				is \$400K per crane and DCES currently has \$150K per crane. Used difference between values for the Most Likely case and then adjusted 25% both ways to arrive at the Worst Case and					
INTEC068R2	D.3.03.3C.02	IEC	Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Howell, Jenathan INTEC Crane Upgrade: Par Re-certification	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could		Closed	Threat			nor 2-Lo		41,250	\$ 82,50	0 0	0 0	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 Previous quote from 2008 for similar work was \$120K which			7/25/2022	6/30/2024	
INTEC068R2			Klukis, Venita Howell, Jonathan	Klukis, Venita estimates.	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown.		Closed				nor 2-Lo			\$ 82,50	0 0	0 0	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	determine risk level		7/25/2022	6/30/2024	
INTEC068R2			Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Howell, Jenathan INTEC Crane Upgrade: Par Re-certification	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is		Closed				inor 2-Lo			\$ 82,50	0	0 0	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 Perevious quote from 2008 for similar work was \$120K which escalates to \$165K in today's dollars. Worst Case assumes we increase cost by 50%, Most Likely assumes we increase cost by 50%, Most Likely assumes we increase cost by	determine risk level		7/25/2022	6/30/2024	
			Klukis, Venita Howell, Jonathan Klukis, Venita	Klukis, Venita estimates. Newell, Jonathan INTECCrane Upgrade: Par Re-certification Scope Definition	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PAR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. WYEC Crane Upgrade must be started and completed between higher priority operational evolutions to ensure that the necessary personne	Vendor inspection and testing upon receipt of PaR arm.	Closed	Threat		. M	inor 2-Lo			\$ 82,50	0 0	0 0	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 Previous quote from 2008 for similar work was \$1200 which escalates to \$165k in today's dollars. Worst Case assume we increase cost by 50%, Most Likely assumes we increases cost by 25%, and Best Case assumes we increase cost by 510%. This exitivity is not on the project critical path and is not expected adversely impact project schedule so no durations were inputted. Werst case assumes we are ready to begin work when ATM. Werst case assumes we are ready to begin work when ATM. Werst case assumes we are ready to begin work when ATM.	determine risk level Project will work to prioritize activities to-			6/30/2024	
INTECO69R2	D.3.03.3C.02	IEC	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Hewell, Jenethen INTEC Crane Upgrade: PaR Re-certification Scope Definition Hewell, Jenethen INTEC Crane Upgrade: CPP 603 Operations-impacts Hewell, Jenethen INTEC Crane Upgrade: Infrastructure doesn't	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. aNTEC Crane Upgrade must be started and sompleted between higher priority operational evaluation to creure that the necessary personne and equipment as available. It Engineering design identifies areas where additional conduit or cell	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher-tority operational work. Engineering design contractor identifies issues with integration	Open Price Option Open	Threat Threat	Mitigate L	. M	inor 4 Hi	w S 16,500 S		\$-		16 32	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. Previous queste from 2008 for similar work was \$120K which escalates to \$155K in today's dollars. Worst Case assumes we increase cost by 50%, Most Likely assumes we increase cost by 50%, and Best Case assumes we increase cost by 50% for the second of the s	determine risk level Project will work to prioritize activities to- avoid numing into conflicts with ATR Direct thipments. Specification is being written such that the			6/30/2024	
INTECO69R2	D.3.03.3C.02	IEC HEG	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Hewell, Jenethen INTEC Crane Upgrade: PaR Re-certification Scope Definition Hewell, Jenethen INTEC Crane Upgrade: CPP 603 Operations-impacts Hewell, Jenethen INTEC Crane Upgrade: Infrastructure doesn't	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. WIFEC Crane-Lipgrade must be started and completed between higher priority operational evolutions to ensure that the necessary personne and equipment are available.	Vendor inspection and testing upon receipt of PaR arm. Vendor inspection and testing upon receipt of PaR arm. Fine project is not complete prior to the beginning of higher-briefly operational work.	Open Price Option	Threat Threat	Mitigate L	ikely M	inor 4 Hi	\$ 16500 \$	41,250	\$-	8	16 32	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. Terelouis quote from 2008 for similar work was \$120K which escalates to \$155K in today's dollars. Worst Case assumes we increase cost by 50%, Most Likely assumes we increase cost by 50%, and Best Case assumes we increase cost by 50% in 50 on the project critical path and is not expected diversely impact project schedules on on durations were inputted. Worst case assumes we are ready to begin work when ATR we day shipments are starting. The other case assumes we do not have as much cachedule owerlay. No cost impact is associated with this risk. Best Case accounts for a minor adjustment to existing drawin and work package only. Likely Case assumes that and a new, minor infrastructure installation which would drive material	determine risk level Project will work to prioritize activities to work owning into conflicts with ATR Direct hipmants. Specification is being written such that the supplier will be required to design within the existing infrastructure.		4/11/2023	6/30/2024	
INTECO69R2	D.3.03.3C.02	IEC HEG	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Hewell, Jenethen INTEC Crane Upgrade: PaR Re-certification Scope Definition Hewell, Jenethen INTEC Crane Upgrade: CPP 603 Operations-impacts Hewell, Jenethen INTEC Crane Upgrade: Infrastructure doesn't	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. aNTEC Crane Upgrade must be started and sompleted between higher priority operational evaluation to creure that the necessary personne and equipment as available. It Engineering design identifies areas where additional conduit or cell	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher-tority operational work. Engineering design contractor identifies issues with integration	Open Price Option Open	Threat Threat	Mitigate L	ikely M	inor 4 Hi	\$ 16500 \$	41,250	\$-	8	16 32	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 7 revious quote from 2008 for similar work was \$1200 which escalates to \$165k in today's follars. Worst Case assumes we increase cost both cases were presented to the contraction of the contraction o	determine risk level Project will work to prioritize activities to work arming into conflicts with ATR Direct hipmants. Specification is being written such that the supplier will be required to design within the existing infrastructure.		4/11/2023	6/30/2024	
INTECO69R2	D.3.03.3C.02 D.3.03.3C.02 D.3.03.3C.02	IEC HEG	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan	Klukis, Venita estimates. Hewell, Jenethen INTEC Crane Upgrade: PaR Re-certification Klukis, Venita Scope Definition Hewell, Jenethen INTEC Crane Upgrade: CPP 603 Operations-impacts Hewell, Jenethen INTEC Crane Upgrade: Infrastructure doesn't klukis, Venita support integration of new design INTEC Crane Upgrade: Infrastructure doesn't klukis, Venita support integration of new design INTEC Crane Upgrade: Infrastructure doesn't klukis, Venita support integration of new design	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. aNTEC Grane Upgrade must be started and sampleted between higher priority perastional evaluation to corrure that the necessary personne and equipment are available. It Engineering design identifies areas where additional conduit or cell wall penetrations will be required.	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher- priority operational work. Engineering design contractor identifies issues with integration into existing facility. Identified contractor identifies availability issues that impact the	Open Open Price-Option Open Closed	Threat Threat	Mitigate L Mitigate Aimo Mitigate Ur	st Certain Mod	erate 2-Lo	\$ 16500 \$	41,250	\$ 101,25	8	16 32	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. Pervious quote from 2008 for similar work was \$120K which escalates to \$156K in today's dollars. Worst Case assumes we increase cost by \$50K. Most Likely assumes we increase cost by \$10K. This activity is not on the project critical path and is not expected diversely impact project schedules on on durations were injurted. West case assumes we are ready to begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted are clearly begin work when ATR we day's disjuncted with this risk. **sociated with this risk.** *sociated with thi	determine risk level Project will work to prioritize activities to evoid running into conflicts with ATR Directablisments. Specification is being written such that the supplier will be required to design within the existing infrastructure.		4/11/2023 7/25/2022	6/30/2024	
INTECOGOR2	D.3.03.3C.02 D.3.03.3C.02 D.3.03.3C.02	IEC IEC	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan Howell, Jonathan Klukis, Venita	Klukis, Venita estimates. NTEC Crane Upgrade: PaR Re-certification Klukis, Venita	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. NIEC Crane-Liggrade must be started and completed between higher principly operational evolutions to ensure that the necessary personne and equipment are available. It Engineering design identifies areas where a additional conduit or cell wall penetrations will be required.	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher- priority operational work. Engineering design contractor identifies issues with integration into existing facility. Identified contractor identifies availability issues that impact the	Open Open Price-Option Open Closed	Threat Threat	Mitigate L Mitigate Aimo Mitigate Ur	st Certain Mod	erate 2-Lo	W \$ 16,500 \$ W \$ 30,000 \$	41,250	\$ 101,25	8	36 33 32 54	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 7 revious quote from 2008 for similar work was \$1200 which escalates to \$165k in today's dollars. Worst Case assumes we increase cost by \$500, Most Likely assumes we increase cost be sidely in \$500, Most Likely assumes we increase cost by \$500, Most Likely assumes we increase cost be increased adversely impact project schedule so no durations were inputted. Worst accessors were are ready to begin work when ATEW to dry highwents are starting. The other cases source when ATEW to dry highwent are starting. The other cases source man and work package only. Likely Case assumes that and a new, minor infrastructure installation which would drive material and work package only. Likely Case assumes that and a new, minor infrastructure installation which would drive material procurement. Worst Case assumes that and a new, minor infrastructure installation which would drive material infrastructure. Durations are based off project historicals and then costs were calculated using typical crew size for this typic of work.	determine risk level Project will work to prioritize activities to evoid running into conflicts with ATR Directablisments. Specification is being written such that the supplier will be required to design within the existing infrastructure.		4/11/2023 7/25/2022	6/30/2024	
INTECOOR2 INTECO70R2 INTECO71R2	D.3.03.3C.02 D.3.03.3C.02 D.3.03.3C.02	IEC IEC	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan Howell, Jonathan Klukis, Venita	Klukis, Venita INTEC Crane Upgrade: PaR Re-certification Klukis, Venita Scope Definition NTEC Crane Upgrade: CPR Re-certification Scope Definition NTEC Crane Upgrade: CPR 603 Operations Impacts NTEC Crane Upgrade: Infrastructure doesn' Klukis, Venita NTEC Crane Upgrade: Infrastructure doesn' Klukis, Venita NTEC Utility Tunnel: Specialty Subcontract Availability NTEC Utility Tunnel: Specialty Subcontract Availability NTEC Utility Tunnel: Specialty Subcontract NTEC Utility Tunnel: Sp	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. AFEC Crane Upgrade must be started and completed between higher priority appraisance evaluation to ensure that the necessary personne and equipment as availables. It Engineering design identifies areas where additional conduit or cell wall penetrations will be required.	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher- in priority operational work. Engineering design contractor identifies issues with integration into existing facility. Identified contractor identifies availability issues that impact the project schedule. Craft management identifies availability issues that impact the	Open Open Price-Option Open Closed	Threat Threat Threat	Mitigate L Mitigate Almo Mitigate Us Mitigate Pe	sst-Certain Model	erate 2-Lo	W \$ 16,500 \$ W \$ 30,000 \$	60,000 60,000	\$ 101,25	8 8	36 32 32 54	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 Previous quote from 2008 for similar work was \$1200 which escalates to \$165k in today's dollars. Worst Case assumes we increase cost by \$50, Most Likely assumes we increase cost by \$50, Most Likely assumes we increase cost by \$500k. This scitled is not obtained to the project critical path and is not expected adversely impact project schedule so no durations were imputted. Worst case assumes we are coady to begin work when ATEN we day hapment are starting. The other cases assume on the day and work package only. Likely Case assumes that and a new, minor infrastructure installation which would drive material and work package only. Likely Case assumes that and a new, minor infrastructure. Durations are based off project historicias and then costs were calculated using typical crew size for this typ of work. 6885 Gases 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 host Likely - 16 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 host Likely - 16 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 host Likely - 16 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 host Likely - 16 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 host Likely - 16 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days = 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days + 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days + 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days + 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days + 10 hrs. /days + 4 people + \$75/hr - \$13,000 less Case - 4 days + 10 hrs. /days +	determine risk level - Project will work to prioritize activities to evoid running into conflicts with ATR Direct-thipmants. Specification is being written such that the supplier will be required to design within the existing infrastructure. Schedule contractor early.		4/11/2023 7/25/2022	6/30/2024 6/30/2024 6/30/2024	
INTECOOR2 INTECO70R2 INTECO71R2	D.3.03.3C.02 D.3.03.3C.02 D.3.03.3C.02	IEC IEC IEC	Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan Klukis, Venita Howell, Jonathan Klukis, Venita	Klukis, Venita estimates. Hewell, Jonathan INTEC Crane Upgrade: PaR Re-certification Klukis, Venita Scope Definition Hewell, Jonathan INTEC Crane Upgrade: CPP 503 Operations-impacts Hewell, Jonathan INTEC Crane Upgrade: Infrastructure doesn't klukis, Venita Support Integration of new design INTEC Crane Upgrade: Infrastructure doesn't klukis, Venita Support Integration of new design INTEC Utility Tunnel-Specialty Subcontract Availability	have no basis of estimate. Controller, hook, and linear actuator lead times are unknown. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. aNTEC Crame Upgrade must be started and completed between higher printing operational evaluation to course that the necessary personne and equipment as available. It Engineering design identifies areas where additional conduit or cell wall penetrations will be required.	Vendor inspection and testing upon receipt of PaR arm. The project is not complete prior to the beginning of higher- priority operational work. Engineering design contractor identifies issues with integration into existing facility. Identified contractor identifies availability issues that impact the project schedule.	Open Price-Option Open Open Open Closed	Threat Threat Threat	Mitigate L Mitigate Almo Mitigate Us Mitigate Pe	sst-Certain Model	erate 24.0	\$ 16,500 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	60,000 60,000	\$ 101,25	8 8	36 32 32 54	Used difference between values for the Most Likely case and then adjusted 25% both ways to rainve at the Worst Case and Best Case values. Pervious quote from 2008 for similar work was \$120K which escalates to \$156K in 06, Most Likely as summer we increase cost to 25%, and Best Case assumes we increase cost to 25%, and Best Case assumes we increase cost to 25%, and Best Case assumes we increase cost to 25%, and Best Case assumes we increase cost to 25%, and Best Case assumes we increase cost to 25% and best Case assumes we increase cost to 25% and best Case assumes we necessary of the cost of the co	determine risk level - Project will work to prioritize activities to evoid running into conflicts with ATR Direct-thipmants. Specification is being written such that the supplier will be required to design within the existing infrastructure. Schedule contractor early.		4/11/2023 7/25/2022 4/11/2023	6/30/2024 6/30/2024 6/30/2024	

INTECO76R2	D.3.03.3D	-02-	IEC.	Kelly, 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	\$ 4,41	9 1	2 3	Best Case: \$276.19 subcontractor cost for each facility. Most- Likely: 4 facility audits per day =\$1104.76 2 day delay =	N/A		4/11/2023	6/30/2024	
INTEC077R2	D.3.03.38	.10	IEC \	Wilcox, Christopher	Wilcox, LED Lights longevity Christopher	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 Closed	Threat	Accept	Possible	Major	4-High	\$ 43,525 \$	87,051	\$ 174,10	2 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,	N/A		11/17/2022	6/30/2024	
																			and cost to support removal and installation is estimated to be \$160K. Schedule impact worst case was found by reusing initia					
																			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					
																			removed/replaced while Best Case assumed 25%					
INTEC078R2	D.3.03.38	.10	IEC \	Wilcox, Christopher	Wilcox, Waste in Cell 216 Prevents Lower Light Christopher 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 Closed	Threat	Mitigate	Likely	Critical	5-Very High	\$ - \$	-	\$ -	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 installation, most likely is based off of completing the	Setup schedule to perform these lights last to allow as much time as possible for the Waste Loadout to complete.		11/17/2022	6/30/2024	
																			waste load out by end of FY23, and worst case estimates the waste loadout is completed by 1/2023					
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	Possible	Moderate	2-Low	\$ - \$	-	\$ -	10	20 40	Work is being performed by subcontractor so, minimal cost w be realized if materials are delayed but the scheduel will be			11/17/2022	6/30/2024	
INTEC082	D.3.03.32	03	IEC	Hamilton, Rob	N/A INTEC 902 Crane Repair: Crane 902 Rail	Crane rail repairs take longer than anticipated and are not completed	Crane rail renairs continue to clin past 10/02/2023	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 140,000 \$	280,000	\$ 500,00	0 0	0 16	negatively impacted. Most likely scenario is a delay in the vendors supply chain. Best Case: PPE costs-\$18000 (\$500/entry/person) per week.	N/A	Work OT to recover schedule slip later once the	4/23/2023	6/30/2024	
11412-0002	0.3.03.32	03	icc	riamiton, Kob	Repairs Delays New Crane Install	by the time new crane shows and paperwork to install is approved.	Crane ran repairs continue to sup past 10/02/2023.	Орен	Tilleat	Ассерг	rossible	Woderate	2-10W	3 140,000 3	280,000	3 300,00		0 10	Straight time for union workers - 8 days X 10 hr./day X 9 FTEs 3 \$60/hr. overtime for union workers - 4 days X 10 hr./day X 9		paperwork is approved to install the crane	4/23/2023	0/30/2024	
																			FTEs X \$90/hr. Exempt personnel - 12 days X10 hr./day X 3 FTE X \$75/hr.= \$140,000. No schedule impact since taking action prior to installation of	s				
																			crane. Most Likely Case: PPE costs-\$18000 per week. Straight time fo	,				
																			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					
																			Worst Case: No overtime allowed causes schedule impact of 1 work days since it would delay the crane install. PPE costs-	6				
																			\$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.					
INTEC083	D.3.03.32	.03	IEC	Baisch, Kasey		During the remote design of the crane, the cable reel and bridge	Installation of the crane.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 56,500 \$	88,450	\$ 161,10	0 20	22 44	Best Case: Assuming maintenance can access cable reel and			4/23/2023	6/30/2024	
						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													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					
						with the west wall in the PaR parking area of the cell.													days X 10 hr./day X 9 FTEs X \$60/hr. Exempt personnel 4 days 10 hr./day X 3 FTEs X \$75/hr. PPE cost \$21,500 = \$56,500Most	x				
																			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 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 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 - 8days X 10 hr./day X 3 FTEs X \$75/hr.+ 4 days X 10 hr./day X 1.5 OT rate X 3 FTEs X \$75/hr.= \$31500.00 + 75600.00 = \$107100.00 + PPE \$54000 =					
																			\$161,100.00					
INTEC137	D.3.03.3A	.05	IEC \	Wilcox, Christopher	Wilcox, INTEC Firewater System: Materials	Materials are delayed or not available as scheduled.	Materials are backordered or have excessive lead times.	Once	Threat	Accept	Possible	Minor	2-1 014	\$ 45,000 \$	60,000	\$ 120,00	0 12	16 32	Best Case: 12 days X 10 Hrs. X 5 FTEs X \$75/hr. Most Likely: 16	N/A		4/11/2023	6/30/2024	
	D.3.03.3A	.06			Christopher Procurement Delays	·		Closed											days X 10 Hrs. X 5 FTEs X \$75/hr. Worst Case: 32 days X 10 Hrs X 5 FTEs X \$75/hr.					
INTEC138	D.3.03.3A D.3.03.3A		IEC \	Wilcox, Christopher	Wilcox, INTEC Firewater System: Equipment Christopher Lease/Procurement Delays	Equipment delayed or not available as scheduled or does not function as necessary.	Equipment arrives and does not function as needed.	Open Realized	Threat	Accept	Possible	Minor	2-Low	\$ 45,000 \$	60,000			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.				6/30/2024	
INTEC211	D.3.03.32 D.3.03.32		IEC	Hamilton, Rob	N/A <u>BOP PM:</u> 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.	A Major Noncompliance event occurs.	Open	Threat	Accept	Likely	Major	4-High	\$ 250,000 \$	500,000	\$ 1,000,00	0 48	96 192	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	6/30/2024	
						, , , , , , , , , , , , , , , , , , ,																		
INTEC212	D.3.03.30	1.04	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	Equipment fails.	Open	Threat	Accept	Almost Certain	Critical	5-Very High	\$ 500,000 \$	1,000,000	\$ 2,000,00	0 96	192 288	616 compressor replacement actuals, potable water wiring actuals, 1647 piping actuals, cathodic protection replacement actuals.	N/A		5/18/2023	6/30/2024	
						equipment failure can cause unscheduled outages to repair and turn the equipment back over to operations.																		
INTEC221	D.3.03.3F	.06	IEC	Lords, Darin	Delays Power Conductor Testing and	During the performance of the conductor testing for the deep well installation, severe weather could cause a delay, increasing the time	Severe Weather.	Open Closed	Threat	Accept	Rare	Minor	1-Low	\$ 30,000 \$	45,000	\$ 60,00	0 8	12 16	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	6/30/2024	
					Installation	needed to complete the testing.													days x 10 nr. x 5 F1Es x \$75/nr.					
INTEC222	D.3.03.3F	.06	IEC	Lords, Darin	N/A CPP-606 Vulnerabilities Upgrades: Conductors Cable Falls	While testing of deep well power conductors, the cable fails the testing criteria, thus, having to be replaced.	Failed test.	Open Closed	Threat	Accept	Rare	Major	2-Low	\$ 94,500 \$	171,000	\$ 274,50	0 42	76 122	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.	N/A	N/A	7/28/2022	6/30/2024	
																			Worst Case: 122 days X 10 hr. X 3 FTEs X \$75/hr.					
INTEC223	D.3.03.3F	.06	IEC	Lords, Darin		During connector tie-in evolution of the Deep Well power conductors	Damaged Equipment/parts.	Open	Threat	Accept	Rare	Minor	1-Low	\$ 60,000 \$	75,000	\$ 135,00	0 12	16 32	Best Case: 12 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in	N/A	N/A	7/28/2022	6/30/2024	
					Connectors Damaged	there is potential a connector kit could become damaged and new kits have to be installed or be replaced.		Closed											materials Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$15K in materials					
INTEC224	D.3.03.3F	06	IEC	Lords, Darin	N/A CPP-606 Vulnerabilities Upgrades: During	During the tugger/pulling evolution of the conductors, the conductor	Cable will not pull into new conduit	Open	Threat	Accept	Rare	Minor	1-Low	\$ 95,000 \$	110,000	\$ 170,00	0 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	N/A	N/A	7/28/2022	6/30/2024	
	5.5.03.31	-		20. 20, Dollii		becomes wedged and will not continue into conduit.	The second secon	Closed	····cat	П				. 55,000	110,000	. 170,00		32	materials Most Likely: 16 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in			.,=0,2022	-,30,2024	
	\perp																		materials Worst Case: 32 days X 10 hr. X 5 FTEs X \$75/hr. Plus \$50K in materials					
INTEC300	D.3.03.3	iA .	IEC V	Wilcox, Christopher	Christopher Testing	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	Fail backfill compaction testing on test sites.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 32,000 \$	128,000	\$ 256,00	0 4	16 32	Fail Backfill Testing per SPC-2879 of 95% compaction on completed compacted test sites.		Prior backfilling activities are acceptable as is and project can proceed forward.	3/1/2024	6/30/2024	The workorder did not call out testing for backfill lifts to meet 95% compaction per SPC-2879. Force Account backfilled in the same manner to achieve 95%
						packfill testing results will require correction prior to asphalt installation.																		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 V	Wilcox, Christopher	Wilcox, INTEC CPP-666 Annex HVAC Upgrade: Christopher 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	\$ - \$	-	\$ -	8	16 32	Subcontractor for project and the subs under contract sub are working at MFC and had their completion date moved forware		We can work parts of the workorder in preparation for the final work scope to be completed when manpower	3/1/2024	6/30/2024	
							-rost-												on them into the time we had the subs scheduled for our project.		the final work scope to be completed when manpower is available.			p. spend can work consultency.
INTEC302	D.3.03.39	1.02	IEC	Kelly, Patrick	Kelly, Patrick Design from Subcontractor Inadequacies	Initial Design from subcontractor DOE-ICPs does not conform with field conditions requiring additional work on drawings to be able to	Drawing inadequacies discovered during work control development.	Realize	Threat	Accept	Almost Certain	Moderate	4-High	\$ 175,000 \$	230,000	\$ 350,00	0 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.		3/1/2024	6/30/2024	
INTEC303	D.3.03.3	IA .	IEC V	Wilcox, Christopher	Wilcox, Potential Soil Sampling Christopher	move forward with the work. There is a possibility of additional unforeseen soil sampling/testing to occur on the excavated dirt that needs to be disposed of at ICDF.	· ·	Open Closed	Threat	Accept	Rare	Minor	1-Low	\$ 25,000 \$	70,000	\$ 100,00	0 8	16 26		N/A		3/1/2024	6/30/2024	
	1	02	IFC.	Marke 14		Depending on results of the sampling it could introduce additional disposal requirements.	Was and the state of the state			Maria	106.1								Volume Militia and a series of the series of	Complement		p jao is	c in a trans	
INTEC306	D.3.03.36	2	IEC	Klukis, Venita	Klukis, Venita Waste Boxes Requires Additional Processing Before Disposal	Waste boxes do not meet specifications for disposal requiring them to be processed at an offsite facility or to be shipped to a different location, creating higher disposal fees.	Waste container does not meet shipping requirements.	Open	Threat	Mitigate	Likely	Minor		\$ 70,000 \$	140,000	\$ 280,00	0 8	8	Vulnerabilities previously paid a company about \$60,000 per box for disposal. To account for inflation the costs will be set a \$70,000 per box. Best case is 1 box. Most likely is 2 boxes.	t requirements and to do what they can to		5/20/2024	6/30/2024	
																			Worst case is 4 boxes. Time is set at two weeks to coordinate sending the boxes to an off-site facility to be processed.					
INTEC307	D.3.03.38	:.09	IEC	Klukis, Venita	Klukis, Venita Hardware procurement issues	Hardware could have long lead times causing schedule impacts for implementation. Hardware could also be unavailable or very difficult	Procurement of hardware.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,000 \$	2,000	\$ 3,00	0 48	96 182	3, 6, and 12 months delay with minimal cost impacts since project would shut down until materials arrived.	N/A		5/20/2024	6/30/2024	
INTEC308	D.3.03.38	:.09	IEC	Klukis, Venita	Klukis, Venita Engineering resources become limited during	to locate causing budget and schedule impacts. With limited personnel the DCS engineering group could experience a	DCS engineer leaves the department or is placed on STD/LTD.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,000 \$	2,000	\$ 2,00	0 24	96 96	Best case: 6 weeks for the typical amount of time someone is	N/A		5/20/2024	6/30/2024	
					project execution	reduction in personnel due to attrition or health issues. This would create longer lead times to complete items.						·			,	,			on STD. Cost impacts are minimal since the project will be on hold until personnel return. Most Likely: 6 months for someone who needs the full time or					
																			STD. Cost impacts are minimal since the project will be on hole until personnel return.					
																			Worst case: 6 months to hire and train a replacement. Cost impacts are minimal since the project will be on hold until personnel have been trained.					
INTEC309	D.3.03.38	:.09	IEC	Klukis, Venita	Klukis, Venita Current system design has unknown aspects	The current system does not have drawings or documentation which could cause the project to encounter unknown aspects or conditions	Unknown condition encountered at any time during project.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 5,000 \$	10,000	\$ 20,00	0 8	16 32	Best case: two weeks to investigate issues and purchase addtional software or hardware to address.	N/A		5/20/2024	6/30/2024	
						during investigation, installation, and testing.													Most Likely: 1 month Worst case: 2 months					

INTEC310	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita Testing after installation is not successful	After the installation of the software and hardware, during testing, it is discovered the system is not operational as intended.	Testing of system does not end in viable equipment.	Open	Threat	Accept U	Jnlikely M	inor 2	2-Low \$	1,000 \$	50,000	\$ 300,000	8	16 182	Best Case: Possible bugs that need to be addressed causing the schedule to move 2 weeks and minimal costs incurred.			5/20/2024	6/30/2024	
																		Most Likely: Engineering requires 1 month to address issues along with purchasing new equipment. Worst Case: The new system is not viable causing an entire redesign.					
INTEC311	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita Incompatabilities with other field devices	During installation of the new software and hardware it is discovered that the current field equipment (IO, VFDs, etc.) are not compatible		Open	Threat	Accept P	Possible Se	rious 3-M	Moderate \$	5,000 \$	50,000	\$ 175,000	16	48 96	Best case: engineering requires 1 month to purchase software or hardware to create a bridge to equipment			5/20/2024	6/30/2024	
					and do not function properly.													Most Likely: three months with software and hardware purchases Worst case: New VFDs, IO, etc will need to be purchased that i compatible with system requiring 6 months and extensive					
INTEC312	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita Software development could require more time than anticipated	Software development for an aged system could prove to be more complicated than originally planned leading to additional man hours and schedule changes that will delay the project.	Software development does not finish within scheduled period.	Open	Threat	Accept	Likely M	inor 2	2-Low \$	8,000 \$	16,000	\$ 32,000	8	16 32	costs. Design engineering labor hours will be the only impact so their time is assumed to be \$100 per hour. Schedule impacts are estimates only and could vary.			5/20/2024	6/30/2024	
INTEC313	D.3.03.3C.02	IEC	Klukis, Venita	Klukis, Venita Lost or damaged equipment during shipping.		Shipping boxes.	Open	Threat	Accept	Rare Cr	itical 3-Me	Moderate \$	330,000 \$	660,000	\$ 1,000,000	366	366 366	estimates only and could vary. "Worst case is based off of replacing the entire assembly of the PaR. Most likely and best case are broken down by 1/3 of ML.			5/20/2024	6/30/2024	
																		Long lead times from PaR. "Note these lead times may extend out past the Task Order time constraints."					
INTEC314	D.3.03.36.02	IEC	Klukis, Venita	Klukis, Venita Damage to the Crane Impacts schedule	Due to the vital nature of the crane to this project scope any unforseen damage to the crane could significantly impact cost schedule.	Damage to crane	Realized	Threat	Accept Almo	ost Certain M	ajor 5-Ve	/ery High \$	50,000 \$	100,000	\$ 250,000	48	96 366	Previous damage to crane took approximately 2 years to get back into operation. Costs are based on escalation/inflation possibilities of the work being pushed.			5/20/2024	6/30/2024	
																		*Note these lead times may extend out past the Task Order time constraints.					
INTEC315	D.3.03.38.04	IEC	Kelly, Patrick	Kelly, Patrick Insufficient signal strength	Insufficient signal strength may require relocate external antennas.	Signal strength test comes back lower than adequate.	Open	Threat	Accept	Likely Se	rious 4-	4-High \$	100,000 \$	129,000	\$ 150,000	48	64 96	cost of DCS plu/minus 25%			5/20/2024	6/30/2024	
INTEC317	D.3.03.36.02	IEC	Klukis, Venita	Klukis, Venita Filter door maintenance cannot be performed	The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues forcing engineering to redesign the door closure system for faster, simpler future maintenance	The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues	Realize	Threat	Accept	Rare Se	rious 2	2-Low \$	15,000 \$	30,000	\$ 45,000	32	64 96	Best case: design, build, and install of 12 door closures \$15K as best estimate of the cost of materials Most Likely: design, build, and install of 12 door closures and 6 new doors \$30K			5/20/2024	6/30/2024	
IT002	D.6.02.36	IEC	Anderson, Jade	Anderson, Jade Information Technology: Personnel Attrition	Hiring (personnel Attrition) - down three developers for almost a year	Continuation of project is impacted by lack of enough trained	Realized	Threat	Accept Pi	Possible Se	rious 3-M	Moderate \$	216,000 \$	576,000	\$ 1,296,000	24	64 144	Worst case: design, build, and install of 12 door closures and 1 new doors \$45K Best Case: 24 days x 10 hr./day x 4 FTEs x \$225/hr.= \$216,000	N/A		5/20/2024	6/30/2024	
					finding qualified and capable individuals is complicated. Key primary contributors take promotions or leave the company during project execution.	personnel.												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					
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	Threat	Mitigate	Rare Se	rious 2	2-Low \$	216,000 \$	576,000	\$ 1,296,000	24	64 144	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		N/A	4/23/2023	6/30/2024	
																		Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$1,296,000					
IT005	D.6.02.34, D.6.02.36, D.6.03.33	IEC	Anderson, Jade	Anderson, Jade Information Technology: Unforeseen Structural Issues During Operations	Unforeseen structural issues would require involving our facilities and the schedule is at risk of being pushed to their timeline. The expectation is minimal structural issues, a sizeable structural concern	A sizeable structural concern is discovered.	Open	Threat	Accept U	Jnlikely Cr	itical 3-Mi	Moderate \$	320,000 \$	960,000	\$ 1,920,000	40	120 240	Best Case: 40 days x 10 hrs/day x 4 FTEs x \$200/hr = \$320,000 Most Likely: 120 days x 10 hrs/day x 4 FTEs x \$200/hr = \$960,000	N/A		5/20/2024	6/30/2024	
IT010	D C 03 3C 01 04	IFC	Andrews Inde	N/A	will cause delays, possible engineering contractors, structural contractors, electricians, and increased costs.	Discuss of description (information	0	Thomas	Address	Ualliah .		21000	10.000 €	73,000	A 200.000		10 04	Worst Case: 240 days x 10 hrs/day x 4 FTEs x \$200/hr = \$1,920,000	Defense selleise see see see see	N/A	4/22/2022	C /20 /2024	
11010	D.6.02.36.01,.04- .07	IEC	Anderson, Jade	N/A <u>Information Technology:</u> Software Upgrades	Scheduling testing for software upgrades (ARB risk assessments for Cyber and IT) - Derogatory information discovered during risk assessment, or software vulnerabilities discovered render software or hardware item unfit for use at ICP.	Discovery of derogatory information.	Open	Threat	.mogate U	Unlikely M	inor 2	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 Worst Case: 64 days x 10 hr,/day x 2 FTEs x \$225/hr.= \$288,000	vulnerabilities and adjust coding as necessary.		-, £3/£U23	6/30/2024	
IT012	D.6.03.32.01	IEC	Anderson, Jade	N/A <u>Information Technology:</u> 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	Threat	Accept P	Possible Se	rious 3-Mi	Moderate \$	216,000 \$	576,000	\$ 1,296,000	24	64 144	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	N/A	N/A	4/23/2023	6/30/2024	
					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					
IT013	D.6.02.38,39,41	IEC	Anderson, Jade	N/A <u>Information Technology:</u> Unforeseen	Unforeseen technical issues or major failures can impact the planned	Technical issues or major failures occur.	Open	Threat	Accept P	Possible Cr	itical 4-	4-High \$	320,000 \$	960,000	\$ 1,920,000	40	120 240	Best Case: 40 days x 10 hr./day x 4 FTEs x \$200/hr.= \$320,000	N/A	N/A	4/23/2023	6/30/2024	
	D.6.03.32 D.6.03.33 D.6.02.34 D.6.02.35.01			Technical Issues	schedule, e.g., ransomware.													Most Likely: 120 days x 10 hr./day x 4 FTEs x \$200/hr.= \$960,000 Worst Case: 240 days x 10 hr./day x 4 FTEs x \$200/hr.= \$1,920,000					
																		1					
IT014	D.6.02.40	IEC	Anderson, Jade	Anderson, Jade Information Technology: Utilization of Fiber During Upgrades	The current plan is to replace all the fiber, but an analysis may indicate that the project doesn't have to utilize all of the fiber	Realization of not all fiber needing to be replaced once it is dug	Open	Opportunity	Accept P	Possible M	inor 2	2-Low \$	(1,278,720) \$	(692,480)	\$ (266,240)	-120	-60 -20	Worst Case: 40 days x 10 hrs/day x 2 FTEs x \$200/hr = - \$160,000 plus material costs of -\$106,240Most Likely: 120 day	N/A		6/1/2024	6/30/2024	
					purchased.Locating efficiencies along the way.													x 10 hrs/day x 2 FTEs x \$200/hr = -\$480,000 plus material costs of -\$212,480 Best Case: 240 days x 10 hrs/day x 2 FTEs x \$200/hr = -\$960,000 plus material costs of -					
IT306	D.6.02.35	IEC	Anderson, Jade		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	The final design has completed, and it determines there is a delta between equipment in stock and equipment needed.	Emerging	Threat	Mitigate Almo	ost Certain N	ajor 5-Ve	/ery High \$	800,000 \$	1,400,000	\$ 300,000	48	96 124	5318,720 This equipment will be needed to complete the Network Refresh project. Otherwise, the project will be put on hold unt equipment can be purchased.		There will be a delta between equipment already purchased and equipment needed to complete the project.	3/1/2024	6/30/2024	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
IT307	V1000	IFC.	Andress	Andorron Indo Nau VI Bules ministra	additional equipment, increasing unplanned costs.	Expiration of the current VA Blaze II	Emi	Therest	Mitigate	ort Cost-l-	dorate.	4 Wieh	20.000	240.000	ć <u>roo</u> go-		0 ^		need additional money to complete equipment purchases.		Chahaa	c Inn Inno	cost was not planned in TO3P2. The IEC IT staff estimates this equipment cost to actually be ~\$1.4M.
11307	K.1.02.04	IEC	Ariderson, Jade	Anderson, Jade New VMWare pricing structure not budgeted in FY25.	I VMWare is changing to a per-CPU-Core pricing model. Currently, we are paying \$80K for a 3-year license, which expires this year. If we do nothing, the new license will be \$500K yearly. IT is currently looking at changes and could possibly get this cost down to ~\$340K.	Lappi audit of the current VMWafe license.	Emerging	mreat	Almo	ost Certain Mo	serate 4	+ nigif 5	80,000 \$	340,000	\$ 500,000	0	0 0	VMWare is changing to a per-CPU-Core pricing model. Currently, we are paying \$80K for a 3-year license, which expires this year. If we do nothing, the new license will be \$500K yearly.	Changing our Virtual Machine infrastructure. Exploring other VM products.		0/10/2024	6/30/2024	
NICDF009	D.4.06.39.01	IEC	Reese, Craig	N/A ICDF Cell 3: Lack of Construction or Excavation Resources Due to Competing Projects or Priorities	As the construction begins, the resources may be unavailable due to other construction activities taking place. Therefore, earthmoving equipment and labor resource may not be available.		Open Closed	Threat	Accept	Likely Mo	derate 3-M	Moderate \$	100,000 \$	500,000	\$ 1,250,000	10	10 10	Best Case: 10 days (2% increase in subcontract cost) = .02 X \$5M Most Likely Case: 10 days (10% increase in subcontract cost) =	N/A	N/A	9/21/2022	6/30/2024	
						sensone.												.1 X \$5M Worst Case: 10 days (25% increase in subcontract cost) = .25 X \$5M					
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, a contract for the entire construction FFP cannot be awarded. The 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	Contractors annual FFP proposal is greater than funding availability and cannot be negotiated.	Realized	Threat	Accept	Rare Cr	itical 3-Mi	Moderate \$	1,000,000 \$	5,000,000	\$ 20,000,000	10	20 40	Best Case: 10 days (2% increase in subcontractor cost) = .2 X 55M Most Likely Case: 20 days (5% increase in subcontractor cost) = 1 X S5M	N/A	N/A	9/21/2022	6/30/2024	
NICDF014	D.4.06.37.05	IEC	Reese, Craig		negotiated, a new RFP may be required. Excavation during the winter months may require the contractor to		Open	Threat	Accept	Likely M	linor 2	2-Low \$	60,000 \$	240,000	\$ 720,000	4	16 48	Worst Case: 40 days (10% increase in subcontractor cost) = 4 X \$5M Best Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	6/30/2024	
NICDF015	D.4.06.3B.01	IEC	Reese, Craig	Activities Halted Reese, Craig Funding Availability for Purchasing	double handle material. CD-38 DOE-ICPs not get approved for early procurement of the	subsequent frost line. CD-3B approval is not obtained in time to account for long lead	Closed	Threat	Accept P	Possible M	linor 2	2-Low c	(1,350,000) \$	(450,000)	\$ (75,000)	-90	-30 -5	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. Worst Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely	N/A		3/1/2024	6/30/2024	Purchase geosyntethic material early to reduce
				Geosynthetics	necessary Geosynthetics prior to the construction needs in early FY24.	times on Geosythetic materials.	Closed					,						Case: 30 days X 10 hrs/dy X 20 FTEs X \$75/hrBest Case: 90 days X 10 hrs/dy X 20 FTEs X \$75/hr					Putchase geosyntetine 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.	нэца requiring respirators.	Open Closed	Threat	Accept P	Possible N	linor 2	z-Low \$	60,000 \$	240,000	\$ 1,440,000	4	16 96	Best Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr. 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.	IN/A	N/A	9/21/2022	6/30/2024	
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.	Basalt pockets, Un-identified utilities,	Open	Threat	Accept	Rare M	inor 1	1-Low \$	30,000 \$	75,000	\$ 1,200,000	2	5 80	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 80 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	6/30/2024	
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 potential for a stop work or a new CD evaluation could evolve.	Rad contamination Archaeology artifacts "Estimate to Complete" drives the project above \$100M.	Open	Threat	Accept	Rare M	inor 1	1-Low \$	30,000 \$	75,000	\$ 300,000	2	5 20	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	6/30/2024	
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.	Open	Threat	Accept	Rare M	inor 1	1-Low \$	30,000 \$	75,000	\$ 1,440,000	2	5 96	Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr. Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	9/21/2022	6/30/2024	
NICDF030R2	D.4.06.37.05	IEC	Reese, Craig	N/A New ICDF Cell: Overtime Required	To maintain project schedule, overtime is required to maintain or recover project schedule.	Technical or installation issues cause schedule delays require overtime recover or maintain project schedule.	Open	Threat	Accept P	Possible Mo	derate 2	2-Low \$	144,000 \$	288,000	\$ 432,000	16	32 48	Worst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr. Best Case: 16 days X 1 hr./day X 120 FTEs X \$75/hr. Most Likely Case: 32 days X 1 hr./day X 120 FTEs X \$75/hr. Worst Case: 48 days X 1 hr./day X 120 FTEs X \$75/hr.	N/A	N/A	12/8/2022	6/30/2024	
<u></u>																							

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.	Spring and fall weather prevent construction work at the site.	Open Th	reat Acc	ccept Possible	Minor	2-Low	\$ 75,000 \$	225,000 \$	675,000	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.	N/A	N/A	12/8/2022 6/3	3/2024
NICDF034	D.4.06.37.05	IEC	Reese, Craig	N/A	PM Support - ICDF: Identification of Contamination	Unforeseen radiological and/or hazardous contamination is discovered outside the boundaries of known sources.	Contamination is identified.	Open Th Closed	reat Acc	ccept Possible	Minor	2-Low	\$ 30,000 \$	75,000 \$	300,000	2	5 20	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	12/8/2022 6/3	0/2024
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, or does not meet the requirements, it can cause a project	BEA power services do not provide power in a timely manner.	Open Th	reat Sha	ared Unlikely	Minor	2-Low	\$ 60,000 \$	240,000 \$	2,640,000	4	16 176	Worst Lase: 20 days X 10 III. day X 20 FTES X 575/III. Best Case: 4 days X 10 III. day X 20 FTES X 575/III. Most Likely Case: 16 days X 10 hrs./day X 20 FTES X 575/Ir. Worst Case: 176 days X 10 hrs./day X 20 FTES X 575/Ir.	Propose Shared to DOE	N/A	2/2/2023 6/3	3/2024
NICDF038	D.4.06.34.05	IEC	Reese, Craig		New ICDF Cell: EVMS Certification Disapproval/Delay	schedule impact. If Contract supporting projects valued at \$100M or more, the contractor's EVMS must be formally certified. 2 **Excessive Corrective Action Reports (CRA) or EVMS disapproval could result in project execution impacts including delays and increased costs. This would impact left's ability to execute work on Capital Asset projects after Critical Decision (CD) 2.		Closed	ireat Acc	ccept Possible	Minor	2-Low	\$ - \$	1,000 \$	6,000	0	16 96	Best Case: No impacts are applied. Most Likely Case: I month delay to rework CD Approval documents *Lifymonth *Six Worst Case: EVMS certification disapproval results in 6 months to restructure * 1l/month = 56k	N/A	N/A	6/26/2023 6/3	9/2024
NICDF039a	D.4.06.34.05	IEC	DOE FPD	Reese, Craig	New ICDF Cell: 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 ODG direction they are also planning two years of scope under 15x6 Order 3 Phase 2 (PYZ4-YZ5). 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.	The PMB submitted in the spring comes out with different costs and/or schedule estimates than planned under TO3 Phase 2.	Open Th Closed	ireat Sha	ared Possible	Serious	3-Moderate	\$ 250,000 \$	500,000 \$	750,000	32	64 96	Best Case: Additional 2 months needed for scope identified under Pr24/25 time frame with additional \$250X. Most Likely: Additional 4 months needed for scope identified under Pr24/25 time frame with additional \$500X. Worst Case: Additional 6 months needed for scope identified under Pr24/25 time frame with additional \$500X.	Propose Shared to DOE	N/A	7/10/2023 6/3	//2024
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 path forward.	Discovering Basalt pockets.	Open Th Closed	reat Miti	tigate Possible	Minor	2-Low	\$ 30,000 \$	75,000 \$	1,200,000	2	5 80	Best Case: 2 days X 10 hrs/dy X 20 FTEs X \$75/hr Most Likely Case: 5 days X 10 hrs/dy X 20 FTEs X \$75/hr Worst Case: 80 days X 10 hrs/dy X 20 FTEs X \$75/hr	Ensure subcontractor provides additional labor and equipment to remove the basalt.	11/8/2023	3/1/2024 6/3	0/2024 None
NICDF303	D.4.06.37	IEC	Reese, Craig	Reese, Craig	Subcontractor / Lower Tier Contractor Schedule Does Not Align With IEC Baseline Schedule	Project's estimated durations could differ from the actual time it takes the subcontractor to perform the site prep. and excavation, which will result in schedule delays and unforeseen costs.	Subcontractor schedule is different than proposed baseline schedule.	Realized Th	reat Acc	ccept Possible	Minor	2-Low	\$ 30,000 \$	60,000 \$	300,000	2	4 20	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A		6/15/2024 6/3	0)/2024
NRFDD008R2	32D.5.01.30.20D.5.	(IEC	Burtenshaw, Shawna	Burtenshaw, Shawna	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 Th	reat Acc	ccept Unlikely	Moderate	2-Low	\$ 100,000 \$	500,000 \$	1,000,000	10	24 32	Impacts are estimated based on loss of contamination requiring a step back and recovery planning, additional surveys and PPE, and execution to recover the area.	N/A	3/20/2022	10/9/2023 6/3	0/2024
NRFDD009	D.5.01.32	IEC	Burtenshaw, Shawna	Shawna		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.	from NRF through gate 4 will have a load limit no greater than 13' in height that will require an alternate route or complicated high voltage power outage.			ccept Likely		2-Low	\$ 21,000 \$	42,000 \$	84,000		8 16	Best Case: 4 days X 10 hrs/dy X 7 FTEs X \$75/hr Most Likely Case: 8 days X 10 hrs/dy X 7 FTEs X \$75/hr/Worst Case: 16 days X10 hrs/dy X 7 FTEs X \$75/hr		INCOMPLETE	7/10/2023 6/3	
NRFDD010	D.5.01.32	IEC	Burtenshaw, Shawna	Burtenshaw, Shawna	NRF Naval Reactors: A1W Turnover Delayed	This work scope is based off an FMP schedule with a phased approach to turnover and transfer ancillary A1W facilities to IEC starting June 1, 2023. If the transfer does not happen as scheduled there is a risk of schedule and associated cost delays until turnover is completed.	A1W turnover phases are not turned over as scheduled.	Open Th	reat Acc	ccept Rare	Minor	1-Low	\$ 21,000 \$	42,000 \$	84,000	4	8 16	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	7/10/2023 6/3	//2024
NRFDD011	D.5.01.32	IEC IEC	Burtenshaw, Shawna Burtenshaw, Shawna	Shawna	NRF Naval Reactors: Personnel Attrition NRF Naval Reactors: Industrial Incidents	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays. An industrial incident resultine in serious personnel injury may cause		·		ccept Rare	Moderate	1-Low 3-Moderate	\$ 37,500 \$	225,000 \$	337,500		30 30 180 204	Best Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = \$37,500Most Ukely 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 Best Case: 100 days x 10 hrs./day x 8 people x \$93/hr. =	N/A	8/11/2022 3/20/2022	7/10/2023 6/3 7/10/2023 6/3	
Mill DDDIE	5.3.01.32	120	Surceisium, siamin		Resulting in Shutdowns	an extended shutdown to resolve conduct of operations issues.	on many or near many or near many	Open III	766	nuic nuic	Citicul	3 Woderate	730,000	1,500,000	3,000,000	130		\$750,000 Most Likely: 180 days x 10 hrs./day x 8 people x \$93/hr. = \$1,500,000 Worst Case: 204 days x 10 hrs./day x 8 people x \$93/hr. =		3,20,202	7,10,1013	7,00.4
RHTRU003R2 RHTRU002R2	D.2.04.30.14	IEC IEC	Troescher, Pat Troescher, Pat	N/A	FY24/25 Processing Lot 11 Containers Due to Critical Failure of Equipment BH-TRU Whate Disposition: Achieving PV24/25 Milestones for Processing Lot 11 Containers Due to Complex Geometries	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 Idaho Settlement Agreement (ISA) and Delay to site treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho. Achievement of the FY24 milestone of processing 10 Lot 11 containers and the FY25 milestone of processing 10 Lot 11 containers, due to inability to treat doublin in waste with complex geometries, impacts the Idaho Settlement Agreement with DEQ to have all the STP waste out of the State of Idaho. Processing lot 11 containers are taking longer than planned due to inaccurate generator information. Causing the use of OT to catch up.	specific to: 2. Design, procure, and modify FDPA in-cell crane from analog to digital. Complex geometries containing sodium or waste containing significant quantities (-100g) of Nat are found in repackaging Lot 11 worste.	Open Th	reat Acc	ccept Unlikely Unlikely Unlikely		2-Low 2-Low	\$ 200,000 \$	300,000 \$	66,400	8	32 64 16 32	Schedule impact is based off SDS system being down and in need of repair. Schedule impact is based off SDS system being down and in need of repair. Best Case: 16 days down time x 20 FTES X \$41.50/hr. X 10hr. x 10	N/A Implement overtime to recover schedule slippage and reduce further schedule	Actions include: * The MSM critical spare parts for the Models FX, F, and G is based on current critical spare, and Ged time to receive replacement parts from the vendor. The 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 PMS spare parts currently installed in the CPP-666 and CPP-659 NWCF hot cells, a new Part Lies assembly was procured and installed in the CPP-666 Hot cell. * Monthly and annual PMS are performed on the inventory of the CPP-667 of the cell and facility cares for both CPP-659 and CPP-666. * Monthly and annual PMS are performed on the inventory of the CPP-659 and CPP-666. * Monthly and annual PMS are performed on the level of the CPP-659 and CPP-656. * A complete CPP-659 PMF entire assembly has been procured and has been received. * A complete CPP-659 PMF entire assembly has been procured and has been received. * A complete CPP-659 PMF entire assembly has been procured and has been received. * However, these steps do not entirely mitigate the equipment failure risk and the risk is DOS owned since they plan to procurement of manipulations and upgrades to the FDP in cell crane from analog to digital. * Methods used to size Lot 6 waste components will be used for the Lot 11 waste components. Complex geometries may still result in not be lead able to complete treatment by waster or air methods and would require distillation. The Sodium betaillation System is required to remove sodium from complex geometries may still result in not be lead to result the strain of the return that disposal. If any waste components that cannot be water treatment, by water or air methods and would require distillation. The Sodium betaillation or to stoll on set of the tot or set of site for treatment and disposal if any waste components that cannot be water treatment in set of the components will be stored untill an Ogol of Nax K at a cannot be water treatment me		9/2024
RHTRU300	D.2.04.30	IEC	Troescher, Patrick	Troescher, Patrick	RH TRU disposition exhausts stoagre space.	There is a risk that the RHT PII disposition project will exhaust Interim Storage Container space for Lot 11 product drums generated that are greater than 200 mR/hr.	Stipping of LLW was put into priced option. Therefore, not being able to stip the waste will also producing additional waste will enhaust storage space.	Emerging Th	reat Acc	Almost Certa	ain Minor	3-Moderate	\$ 10,000,000 \$	3,500,000 \$	15,000,000	64	80 96	These impacts are based on the remaining wast to be porcessed against space needed for storage.			3/1/2024 6/3	1/2024 The percentage of drums generated that are greater than 20 mkm ts appointantly 20% 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 mR/hr. Based on the current generated in a drum of Space in three years. The Based on the current generation rate and 30% of drums generated, the RH TRU project will run out of space in three years. Described will run out of space in three years. Described will run out of space in worst scare the RH TRU project will run out of space in worst scare the RH TRU project will run out of space in one year.
SNF007R2	D.1.02.32.31	IEC	Ellsworth, Carla		CPP-603 PaR Manipulator Malfunction	ATR-Direct: Transfers are delayed because of a malfunctioning CPP- 603 PaR manipulator (MAN-GSF-401).	certain PaR motions appear to be or are abnormal/malfunctioning. Failure of the manipulators results in schedule delays.			ccept Likely		2-Low	\$ 107,016 \$	214,032 \$	535,080		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	Maintain the PAR. Work with BEA to reschedule ATR Receipts.		
SNF008R2	D.1.02.32.31	IEC	Ellsworth, Caria	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 Th	reat Miti	Likely Likely	Minor	2-Low	\$ 45,864 \$	214,032 \$	428,064	3	14 28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	In the majority of instances, alternative cameras can be utilized to allow the continuation of operations. Perform camera replacement analysis. -Purchase Back-up Cameras	N/A	3/20/2022 6/3)/2024
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 Th	reat Acc	ccept Possible	Minor	2-Low	\$ 45,864 \$	214,032 \$	428,064	3	14 28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	N/A	Work with DOE/BEA to ensure project activities comply with security plan.	3/20/2022 6/3	0/2024
SNF010R2	D.1.02.34.02	IEC	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.	Radiation Technician surveys of the 1st Generation Vault area indicate higher than allowable radiation levels.	Open Th	reat Acc	ccept Possible	Minor	2-Low	\$ 107,016 \$	214,032 \$	535,080	7	14 35	Best Case: 7 days X 12 hr. X 13 FTEs X \$98/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr. 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.	3/20/2022 6/3)2/2024
SNF011R2	D.1.02.34.02	IEC	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. 2,1 A discharge of fuel is observed when lifting a fuel package to visually inspect its bottom.	Open Th	areat Acc	Possible Possible	Minor	2-Low	\$ 107,016 \$	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 lifted for the purposes of identifying corrosion issues. If an inspected fuel package is determined to be jeopardized because of corrosion then, retrieving the fuel package will be delayed until a recovery plan is developed/approved and readied to work. A conceptual design for retrieval equipment capable of safely lifting a jeopardized fuel package has been developed and reviewed/approved by DOE.	3/20/2022 6/3	9/2024

SNF015R2	D.1.02.32.31	IEC	Ellsworth, Carla	N/A		ATR Direct: IEC schedule delay caused by ATR.	Equipment and/or operations delays at ATR cause delayed or	Open	Threat Mi	itigate Almost	Certain N	Minor	2-Low \$	45,864	\$ 1,700,000	\$ 1,700,000 3	208	208	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr	Alternative work activities will me made	N/A	3/20/2022 6/30/2024	
SNEO16D2	D.1.02.32.31	IEC	Ellsworth, Carla	N/A	IEC schedule Delay Caused by ATR Advanced Text Reactor (ATR) SNE Receipt:	ATR-Direct: Destaco clamps are partially open or closed and prevent	moved shipment dates to INTEC.	Open	Threat Ac	ccept Pos	riblo C	ritical	4 High C	1,231,258	\$ 2,308,608	\$ 2,616,422 96	180	204	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 Best Case: 96 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$1,231,258	available by upper management in the event of an ATR schedule delay.	N/A	3/20/2022 6/30/2024	
SNPU16R2	D.1.02.32.31	IEC	Elisworth, Carla	N/A	Destaco Clamps Malfunction	movement of fuel-loaded canisters.	remotely attempting to open/close a clamp.	Open	inreat At	ccept Pos	sible C	ritical	4-High \$	1,231,236	\$ 2,306,606	5 2,010,422 90	180	204	Most Likely: 180 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,308,608	N/A	N/A	3/20/2022 6/30/2024	
																			Worst Case: 204 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,616,422				
SNF017R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring	Attrition realized.	Open	Threat Mit	tigate Ra	are Mo	oderate	1-Low \$	675,000	\$ 2,025,000	\$ 5,400,000 30	60	120	Best Case: 30 days X 10 hr./day X 30 FTE X \$75/hr.Most Likely	N/A	N/A	1/11/2023 6/30/2024	
	D.1.04.02.03					subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.													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.				
SNF021R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Subcontract	Not securing a subcontractor that can do the work in the time allotted	Subcontractor is not readily accessible to perform work.	Open.	Threat Ac	ccept Ra	are Se	erious	2-Low \$	30,000	\$ 60,000	\$ 120,000 12	42	72	Best Case: 12 days (5% increase in subcontract cost) = \$600k X	N/A	N/A	1/11/2023 6/30/2024	
					Management	for the project can cause schedule delays.		Closed											Most Likely Case: 42 days (10% increase in subcontract cost) = \$600k X 10%				
																			Worst Case: 72 days (20% increase in subcontract cost) = \$600 x 20%	(
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- Closed	Threat Mit	tigate Pos	sible N	Minor	2-Low \$	12,000	\$ 30,000	\$ 60,000 8	16	32	Best Case: 8 days (2% increase in subcontract cost) = \$600k X 2%	N/A	N/A	1/11/2023 6/30/2024	
																			Most Likely Case: 16 days (5% increase in subcontract cost) = \$600k X 5%				
																			Worst Case: 32 days (10% increase in subcontract cost) = \$600 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 Closed	Threat Mit	tigate Pos	sible M	Minor	2-Low \$	12,000	\$ 30,000	\$ 60,000 8	16	32	Best Case: 8 days (2% increase in subcontract cost) = \$600k X 2%	N/A	N/A	1/11/2023 6/30/2024	
																			Most Likely Case: 16 days (5% increase in subcontract cost) = \$600k X 5% Worst Case: 32 days (10% increase in subcontract cost) = \$600				
SNF025R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNE Staging Facility: Qualified Subcontractors	s Subcontractor Cask vendor not on Qualified Supplier List (QSL) at the	No qualified vendor, for each procurement identified during	Open	Threat Mit	tigate Pos:	sible C	ritical	4-High \$	3,000,000	\$ 5,000,000	\$ 8,000,000 12	42	72	X 10% Best Case: \$3M in design rework Likely Case: \$5M in design	Perform a QL assessment to evaluate the	N/Δ	1/11/2023 6/30/2024	
				.,,		appropriate quality level.	solicitation process.							-,,	-,,	120			rework and reordering of materials. Worst Case: \$8M	subcontractor's quality program. The contractor has to be an NQA-1 qualified for		3,23,222	
																				equipment and quality level QL-2.			
																				Road Ready Demonstration is acting to get the contractor approved at an appropriate			
																				quality level QL-2.			
SNF036	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	<u>aver ataging Facility:</u> Geotechnical Findings	Discovery of unforeseen cavities underground and/or soil with low bearing pressure may cause major ground stabilization activities.	During arilling activities, vacancies or low bearing soil is found.	Open- Closed	Inreat Mit	tigate Unl	ikely Mo	oderate	2-Low \$	20,000	\$ 32,000	\$ 48,000 20	32	48	Review alternate locations and get DOE concurrence Best Case: 5 weeks	Grout fill voids if they are minimal. adjust the location of the pad as necessary.	Design for ground stabilization to be performed based on soil investigation	4/23/2023 6/30/2024	
																			Most Likely 8 weeks Worst case 12 weeks	Over-excavation and backfill with suitable			
																			Each day will cost 1,000/day to relocate the pad.	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.	Discovery of utility lines and/or subsurface security systems.	Open	Threat Ac	cept Pos	sible Mo	oderate	2-Low \$	51,600	\$ 126,000	\$ 242,000 16	32	64	Best Case: Redesign the pad to not impact existing infrastructure/utilities: 1 subcontractor for 1 additional month	N/A	Relocate the pad or change the shape of the pad to avoid existing utilities if possible	4/23/2023 6/30/2024	
																			worth of work for \$50K and 1 FTE in engineering for 1 month @ \$100/hr.				
																			Most Likely: 3 FTE for 2 months @ \$100/hr.to design reroutes and \$30,000 in construction costs				
CAUCOGO	D 1 04 02 02	IFC.	Cotton-II In'	p./a	CNE Staging English Attaches 6 5	Per CTD 1100 2016 it was determined about 1 or 1 or 10	DOE avaluation determines the state of the s	De-lin 1	Three	roomt "	riblo	vitio-!	A High	FP0 000	6 750.000	é 4,000,000	450	200	Worst Case: 3 FTE for 4 months @ \$100/hr.to design reroute and \$50,000 in construction costs Best Case: 104 days and increase of \$500,000	N/A	Discuss rafety design - to-to-	4/22/2022	
SNF039	D.1.04.03.03	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Nuclear Safety Documents	Per STD-1189-2016 it was determined that the Staging Facility will be a simple modification and be able to fall under existing SAR 112 and SAR 114. This means that a Safety Design Strategy will not be	modification.	realized	inreat Ac	cept Pos	orate C	a rucal	4-riign \$	500,000	\$ 750,000	\$ 1,000,000 104	156		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	IN/A	Discuss safety design strategy early in the project and frequently. IEC to state position and work with DOE Nuclear Safety group	*/z3/z023 6/30/2024	
						performed for this project. The building may not be a simple mod and that a Safety design strategy will be required.													case. 200 days dild illelease of J1W		an sarety group		
						and an action of the second of																	
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	The progression of each design DOE ICPs not progress as- currently scheduled.	Open		cept Pos tigate	sible Mo	oderate	2-Low \$	200,000	\$ 500,000	\$ 1,000,000 24	32	56	Develop a second SOW, work through a second contract through subcontract administration. Additional coordination	N/A	Segregate the requirement of 1 contract. Develop a second statement of work and contract a local	4/23/2023 6/30/2024	
					, , , ,	company. Coordination between the two designs is beyond originally anticipated.	Agreements/contracts are not established as planned.												for IEC to manage two engineering firms and process paperwork.		engineering firm to perform the security design.		
						There are two design aspects considered for the ID SNF-SF: 1) BEA will perform the security design for the ID SNF-SF,	The designs do not maintain the schedule duration.												Best Case: 2 weeks @ 40hr./week x 1 FTE @ \$100/hr.+ 4 week				
						The SNF-SF pad design will be performed via subcontract. Work performed for the interdependent designs exceed scheduled	BEA does not perform the security design causing for additional time to setup a contract.												@ 95 hr. for sub administration @ \$80/hr. Most Likely: 4 weeks @ 40hr./week x 1.5 FTE @ \$100/hr.+4				
						duration(s).													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.				
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.	Closed	Threat Ac	cept Uni	ikely N	Major 3	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	4/23/2023 6/30/2024	
						equipment, which leaves the possibility of project schedule delays if subcontractor is delayed.													Worst Case: 128 days plus equipment/materials				
SNF054	D.1.02.34.02	IEC	Reynolds, Boedre	N/A	Peach Bottom: Mobile Crane Maintenance	Exceeding the Mobile Crane manufacturers recommended operating hours for performing routine maintenance delays Peach Bottom	Mobile Crane operator observes the machines monitoring system and concludes the manufactures recommended	Realized	Threat Mi	itigate Pos	sible N	Minor	2-Low \$	15,500	\$ 46,000	\$ 62,000 1	2	4	Best Case: 1 day plus equipment/materials Most Likely Case: 2 days plus equipment/materials	Increase periodicity of planned maintenance.	N/A	4/23/2023 6/30/2024	
						transfers.	operating hours are exceeded.												Worst Case: 4 days plus equipment/materials	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.			
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A		The future staging facility location is in a CERCLA area and may have contaminated soil. If the drill rig is contaminated and the equipment	Contamination is identified.	Closed	Threat Ac	cept Lik	ely Se	erious	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	N/A	N/A	4/24/2023 6/30/2024	
					Subcontractor Equipment	or parts of the equipment have to be replaced.													current work they have.				
																			Best Case: Equipment can be wiped down by IEC personnel				
																			spend 2 weeks wiping down subcontractor equipment 4 peopl @ \$50/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 projects				
																			IEC personnel spend 2 weeks wiping down subcontractor equipment 4 people @ \$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				
																			,				
SNF324	D.1.02.36.08	IEC	Woolstenhulme, N	Woolstenhulme, Tyson	Supplier Delay - Holtec	Delay of Holtec being on the QSL as a QL-2 supplier will cause delay to placement of contract for Holtec provided items.	Holtec unable to meet requirements to be placed on the QSL as a QL-2 supplier.	Realized	Threat Ac	ccept Almost	Certain Si	erious	\$	200,000	\$ 400,000	\$ 500,000 32	48	96	Holtec is currently certified as a QL-2 supplier for Engineering services only. Additionally IEC requires a validation audit for	checklist of potential audit requirements to		4/1/2024 6/30/2024	
																			compliance with QARD Rev 20. Fabrication facility needs audited prior to and fabrication work performed.	allow Holtec to understand requirements. Add item on schedule to track audit			
																				scheduling and completion.			
SNF325	D.1.02.36.08	IEC	Woolstenhulme, N Tyson	Woolstenhulme, Tyson	SNF Packaging Criteria	Due to the Office of Civilian Radioactive Waste Management (OCRWM) organization no longer defining SNF Packaging criteria, IEC	Lack of current acceptance criteria prevents IEC from developing Data Packages that would be acceptable to ship to a Final	Open	Threat Ac	ccept Pos	sible C	ritical	4-High \$	2,700,000	\$ 4,100,000	\$ 5,400,000 208	312	416		DOE-ID to work with DOE-HQ and other regulatory agencies to clearly define		4/1/2024 6/30/2024	
						cannot load and close a transportation acceptable SNF Cask.	Repository.													acceptance criteria for a Road Ready acceptable cask. Additionally, IEC is			
																				developing a regulatory strategy to present for our stance on Licensing for packaging, transportation, and storage of SNF.			
SNF326	D.1.02.36.08	IEC	Woolstenhulme, \	Woolstenhulme	Delay of Items Provided by Holtec	Delay of delivery of Holtec provided items will cause a significant delay	Holtec unable to receive material or fabricate items according to	Open	Threat Ar	ccept Pos	sible N	Major	4-High \$	1,200,000	\$ 1,800,000	\$ 5,000,000 48	96	192		Work with Holtec to identify possible delays		4/1/2024 6/30/2024	
3.47 320	1.1.02.30.06		Tyson	Tyson	, a state of the control of the cont	to the project.	IEC Schedule.	Орен	ACC	- FOS		-,	,	2,230,000	. 2,300,000	. 3,000,000 48	30	-32		due to supply chain issues. Also mitigating by purchasing long lead items at risk to minimize		, -, 0/30/2024	
																				impacts to schedule.			
SNF330	D.1.02.36.07	IEC	Woolstenhulme, N	Woolstenhulme, Tyson	PaR Equipment Failure	The 401 PaR replacement Project delay or lack of funding could cause delay to Road Ready Project in the event of PAR equipment failure.	PaR currently does not allow for recovery operations in the event 101 Crane failure.	Open	Threat Ac	ccept Pos	sible N	Major	4-High \$	250,000	\$ 500,000	\$ 750,000 48	96	192		By keeping all PM's current, this will allow for continued use of the PaR until funding can be		4/1/2024 6/30/2024	
																				obtained to upgrade or replace. These PM's will also track potential issues. Additionally			
																				Infrastructure Organization is planning on upgrading and refurbishing an on-site PaR as			
Chifons	D 1 00 00 00	IFC.	Wooletsels	Woolst	Enilod Root Wold	DEA/Liburgi weld coopie stations	Ealled root world discourse of	^	Three	reant	olu -	oriou-	4 High	250.000	ć 700.00¢	é 450.000	-	00		a spare.		A/1/2024 C/20/202	
SNF331	D.1.02.36.07	IEC	Woolstenhulme, N	Woolstenhulme, Tyson	railed KOOT Weld	BEA/Liburdi weld repair machine cannot successfully repair a failed root weld.	raileu root weld discovered.	Open	Threat Ac	LCEPT LIK	ery Se	erious	4-High \$	350,000	\$ 700,000	o 150,000 20	52	96		For the Road Ready Demonstration, 10 DOESC's will be procured. The Demonstration will be loading 7 DOESC;s with 3 spares. In the	1	4/1/2024 6/30/2024	
																				event of a compromised DOESC, the fuel can be reloaded into a spare DOESC and welded.			
																				Additionally, the welding will be done in the PCS which will also allow for safely manually			
																				grinding of the weld.			
					I	1	I		<u> </u>										I	1			

SNF333	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Complications of West Truck Ramp Tyson Construction	Contruction of the West Truck Ramp Fill-in encounters unknown anomalles which causes a delay in schedule and added costs to project.	During excavation of the West Truck Ramp Fill in, unexpected facility/soil conditions are encountered.	Open	Threat Accept	Likely	Serious 4-Hi	igh \$	150,000 \$	300,000	\$ 450,000 32	64 96		Prior to performing excavation activities, all Team members performing or monitoring work will be briefed on the nature of the facility including age and possible unknown conditions. Engineering to provide oversight and help resolve issues encountered to minimize schedule impact.		4/1/2024	6/30/2024	
SNF334	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, West Truck Ramp Design Tyson	Design of the West Truck Ramp Fill-in could cause the project to be delayed.	During design of the West Truck Ramp Fill-In to be able to place a loaded Cask in the Ramp area it will take significant effort to achieve the structural support for Cask storage.	Open	Threat Accept	Likely	Serious 4-Hi	igh \$	150,000 \$	300,000	\$ 450,000 32	64 96		During the design process, MCP-3358 to evaluate the structural integrity of the facility and modifications will be followed. A critical decision will be made to determine feasabilit to place cask in the crane envelope on the West Truck Ramp compared to costs and effort.	y	4/1/2024	6/30/2024	
SNF337	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Drop Analysis Delay Tyson	If the analysis of a drop of a cask is not done prior to SAR revisions then the project may be delayed.	During operations, a cask drop occurs.	Open	Threat Accept	Likely	Serious 4-Hi	igh \$	150,000 \$	300,000	\$ 450,000 32	64 96		During the design process, MCP-3388 to evaluate the structural integrity of the facility and modifications wil be followed. If the analysis shows failure of the west truck ramp will occur, the movement of the Crane will be mitigated by administrative controls in the proper procedure. If a cask drop occurs during operations, MCP-3358 will be followed to determine extent of the damage.		4/1/2024	6/30/2024	
SNF338	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Wookstenhulme, Transfer Route Not Approved Tyson	Road Ready Demonstration Transfer route is not approved for Vertica Cask Transporter (VCT) use.	Engineering evaluation of potential transfer routes identifies that no route is acceptable for VCT.	Open	Threat Mitigate	: Likely	Major 4-Hi	\$	500,000 \$	1,000,000	\$ 1,500,000 48	96 144		Possible heavy construction of transfer route path to improve road capacity. Alternative methods of trainer of casts to include heavy haul trailer and renting single failure proof crane or similar method to transfer cask. Engineering will facilitate further discussion to develop process prior to Road Ready Demonstration. Other possible options include end state location of loaded cask to be within the CPP-603 building.		4/1/2024	6/30/2024	
SNF339	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Insufficient Maintenance Funding Tyson	Road Ready Project schedule may be delayed in the event that insufficient maintenance funding is available to update facilities, systems, equipment, and infrastructure or recover from significant system failures.	Failure of components, system, equipment, or structures.				Moderate 3-Mod		200,000 \$	300,000	\$ 500,000 30	32 48		Maintain the Facility/Equipment. Replacement of the MSM and its approximate costs were determined from \$13K/day crew costs applied to a 3, 6 and 12-month period.		4/1/2024	6/30/2024	
SNF340	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson CPP-603 Does Not Have Necessary Utilities	Demonstration Operations.	Demonstration equipment from being installed in the CPP-603 fuel handling cave. Some of these lacking features include necessary power, gas, data and airline cabling.				Critical 4-Hi			7,500,000		32 34		This risk will be mitigated through engineering of Road Ready handling tools used in the 603 Cave as well as process changes from remote welding to welding in the PCS.			6/30/2024	
SNF341	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Woolstenhulme, CCP-603 Cave Does Not Have Adequate Power	CPP-603 Cave does not have adequate power to operate Packaging Demonstration Equipment.	Demonstration operations (such as welding the DOE Standard Canister) from occurring.	Realized			Critical 4-Hi		5,000,000 \$	7,500,000		32 34		This risk will be mitigated through engineering of Road Ready handling tools used in the 603 Cave as well as process changes from remote welding to welding in the PCS.			6/30/2024	
SNF342	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Tyson CPP-603 Crane Failure Impacts 101 or 401	Fuel operations will be impacted by 101 or 401 crane failure in CPP- 603 fuel handling cave.	During crane fuel movements the crane falls to respond as designed.	Open	Threat Accept	Possible	Moderate 2-Lo	ow \$	200,000 \$	300,000	\$ 500,000 30	32 48	The costs listed from delays are based on a \$13k/day cost to operate a SNF crew extended over a 1.9, 2.0 and 3 month tir period.	been able to repair the system successfully. Crane PMs/other maintenance is performed		4/1/2024	6/30/2024	
SNF343	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson Holtec Contract Delay	Contract Delay for Holter/ORT to obtain a Foreign Ownership, Contro or Influence, (FCCI) approval to allow IEC to place contract for equipment.	Vendor delays getting FOCI or is rejected.	Open	Threat Accept	Possible	Major 4-Hi	igh S :	1,200,000 \$	1,800,000	\$ 5,000,000 48	96 192		on schedule. Vendor working with DOD to get FOCI completed, and DOE accept DOD's FOCI approval. If Ethes/ORT does not obtain FOCI approval, IEC will select alternative supplier (SpectraFels) because they are a partnering team member and IEC has an IDIQ master contract in Jack Poort, and IEC and the God a		4/1/2024	6/30/2024	
SNF347	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Due to facility layout and any delay in work on the West Truck Ramp Fill-in could potentially cause a delay in Permanent Containment Structure (PCS) modifications.	Work on the West Truck Ramp Fill-in prevents work on the PCS modifications due to work in same area being scheduled on same day.	Open	Threat Accept	Likely	Critical	\$!	5,000,000 \$	7,500,000	\$ 10,000,000 14	16 18		Project Management will work with work crews during construction to identify any potential delays during Truck Ramp filini and schedule PCS modifications accordingly. Additionally, any work that can be performed on the PCS modifications outside of the affected area will be identified and performed to not impact schedule.		4/1/2024	6/30/2024	
SNF352	D.1.02.30	IEC	Ellsworth, Carla	Ellsworth, Carla Maintain Crews	Project has to maintain crews in the event BEA does not send the planned ATR receipts.	BEA sends less than the planned ATR receipts.	Open	Threat Accept	Possible	Serious 3-Mod	derate \$	240,000 \$	720,000	\$ 960,000 16	43 184	Impacts are estimated based on the \$120,000 per transfer the is not received, and amount of time crews have to be allocated.			6/1/2024	6/30/2024	
SNF353	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla OCS: Project is More Complex Than Originally Planned For	After beginning the Distributed Control System project, scope is realized to be more complex than originally anticipated. This will	Emergent problems and/or more complex system are discovered that require attention before moving forward.	Emerging	Threat Accept	Likely	Major 4-Hi	igh \$	100,000 \$	800,000	\$ 1,500,000 23	79 143	to different scope. Impacts are estimated based off historical variance and SME judgement.			6/1/2024	6/30/2024	
SNF354	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla DCS: Schedule Delays Due to Higher Priorities	result in schedule and cost increases to revisit and solve issues. Other work takes priority and pushes out install of DCS panels. Result	s Other projects take priority over DCS.	Open	Threat Accept	Possible	Moderate 2-Lo	ow \$	15,000 \$	75,000	\$ 300,000 12	32 96	Impacts are estimated based on SME judgement for other			6/1/2024	6/30/2024	
SNF355	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla DCS: Loss of SME Experience	in schedule delays. Less experienced staff take longer to complete schedule activities than originally planned. The project will experience schedule delays and cost increases.	Project loses experienced personnel.	Emerging	Threat Accept	Possible	Major 4-Hi	igh \$	30,000 \$	150,000	\$ 250,000 16	87 176	project projections. Estimates are based on historical variance and SME judgeme	nt.		6/1/2024	6/30/2024	
TO3002R2	Project Wide	IEC	Multiple CAMs	Multiple Projects Global Risk: Work Delay Due to Abnormal Weather 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 closure.	Open	Threat Accept	Possible	Serious 3-Mod	derate \$	500,000 \$	1,000,000	\$ 7,000,000 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	6/30/2024	
TO3005R2	Project Wide	IEC	Multiple CAMs	Multiple Projects Global Risk: Stop Work Due to External Events	External event(s) at other INL locations or DOE sites cause a stop work.	External event(s) at other INL locations or other DOE 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 Cleanup Project (ICP) causing a stop work, etc.	Open	Threat Accept	Unlikely	Serious 2-Lc	s \$	500,000 \$	1,000,000	\$ 7,000,000 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	6/30/2024	
TO3P2005a	Project Wide	IEC	Multiple CAMs	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 scope execution may be experienced as a direct result of variability in founding, 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.	Impacts from line-item project funding causes limitations that impact the execution of the base scope.	Open	Threat Share		Critical S-Very	y High \$ 1,000	0,000,000 \$ 1,3	350,000,000	\$ 1,700,000,000 900		Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE		11/20/2023	6/30/2024	
TRU007R2	D.2.03.31.06	IEC	Byram, George		If WIPP certified characterization equipment falls and can no longer be used, then CH TRU waste certification and shipment could be impacted. The equipment is older technology that is still in use.	Failure of nondestructive assay or real-time-radiography equipment.	Open	Threat Mitigate	Unlikely	Major 3-Mod	derate \$	24,000 \$	102,000	\$ 153,000 16	68 102	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.= \$102,00 Worst Case: 102 days x 10 hr./day x 2 people x \$75/hr.= \$153,000	Ensure/procure critical spare parts are on 1000 hand as availability allows.	Continue to perform maintenance on equipment, keep spare parts on hand, and monitor data quality to verify systems are operating normally.		6/30/2024	
TRU012R2	D.2.03.31.06	IEC	Byram, George	Assay (NDA) Results, Using ISOCs and All Other Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entire	cannot be completed. This may result in the need for repackaging of waste containers by splitting the waste into multiple daughter		Open	Threat Mitigate	Rare	Moderate 1-Lo	ow \$	48,000 \$	96,000	\$ 144,000 16	32 48	Best Case: 16 days x 10 hr./day x 4 people x \$75/hr. = \$48,000 Most Likely: 32 days x 10 hr./day x 4 people x \$75/hr. = \$96,0 Worst Case: 48 days x 10 hr./day x 4 people x \$75/hr. = \$144,000	Provide additional monitoring for NDA 10 results, identify problematic waste, and make notification. Use dose to Currie results for an RH generated waste.	N/A y	4/23/2023	6/30/2024	
					containers, combining two or more containers, and/or a 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.																
TRU019R2	D.2.03.31.06		Byram, George	Treatment Plan Milestone is Missed	If the annual Site Treatment Plan milestone is missed, then potential significant cost impact due to lost fee and holdback resulting from IDEQ penalty.	to fill available positions with experienced staff to complete critical Acceptable Knowledge, Ster Project Manager, Certification, Real Time Radiography, Non-Destructive Assay, Certification, Real Time Radiography, Non-Destructive Assay, etc., activities in support of profiling and certification of waste streams Sipolasy in external, DOE-ID and the CBFO, approvals of critical documents in support of TRU waste characterization, profiling and certification. CJCBFO requires an action and DOE-ID requires something different. This could potentially generate orphan waste; or could delay waste processing, require reprocessing, or delay profiling and certification. DJ 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.	Open Open	Threat Mitigate Threat Mitigate		Serious 3-Mod		51,200 \$	99,200			Best Case: 32 days x 10 hr/day x 2 people x \$80/hr = \$51.20. Most Ukely-62 days x 10 hr/day x 2 people x \$80/hr = \$59.20. Most Case: 84 days x 10 hr/day x 3 people x \$80/hr = \$520.600. S201.600 Best Case: 32 days x 10 hr/day x 4 people x \$75/hr = \$96.000.	0) and increase communication with the DOE-II and CBFO to minimize, and challenges with them as they arise.	N/A		6/30/2024	
			,, 230gc	Compliant for Waste Isolation Pilot Plant (WIPP) Disposition	annowase is well-und and unit of the upspace of in its current configuration, etc., may be required.	and of the second	-g-mrf	· · · · · · · · · · · · · · · · · · ·		3.000	Ť	*	,300		. 126	Most Like/6 d days x 10 hr,/day x 4 people x \$75/hr. = 5384,000	1000 reconciliation of container data for waste destined for WIPP.		, 13, 1013	.,,	

TRU023	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: CERCLA Facility Unavailability 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-RERA facility libe required with potential update of ARP waste CERCLA requirements.	ARP waste requires reprocessing or testing.	Open Th	reat Mitiga	ate Likely	Serious	s 4-1	High \$	96,000	\$ 192,000	\$ 384,000	32	\$384,000	testing. If results show that ammonium nitrate in ARP waste is acceptable, risk can be		6/30/2024
TRU024	D.2.03.31.06	IEC	Byram, George	N/A	CH-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 fall BoK criteria.	Open Th	reat Mitiga	ate Possibl	e Moderat	ite 2-l	-Low \$	24,000	\$ 48,000	\$ 96,000	16	32 64 Best Case: 16 days x 10 hr /day x 2 people x 575/hr = 524,000 Mont Likehi 32 days x 10 hr /day x 2 people x 575/hr = 540,000 Worst Case: 64 days x 10 hr /day x 2 people x 575/hr = 596,000		Continue BoK calculations for waste destined for WIPP. 4/23/2023 and make notifications if any fail.	6/30/2024
TRU025	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Product Drums Cannot 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.	Product drums cannot be certified due to CI failure and cannot be overpacked into an SWB.	Open Th	reat Mitiga	ate Possibl	e Serious	s 3-Mo	oderate \$	96,000	\$ 192,000	\$ 384,000	32	64 128 Best Case: 32 days x 10 hr. /dayx 4 people x 575/hr. = 506,000 Morst Liehe/fe 4 days x 10 hr. /dayx 4 people x 575/hr. = 5192,000 Worst Case: 128 days x 10 hr. /dayx 4 people x 575/hr. = 9 5384,000	CBFO authorization of overpack bags for product drums, with the overpack bag FGE limit higher than of an SWB	Assign product drums to SWBs as they fail Cl and make notifications if FGE assignment precludes overpack.	6/30/2024
TRU026	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Product Drums Require Reprocessing and Facility is Not Available	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.	Product drums cannot be certified due to prohibited condition and the AMWTF is not available for reprocessing.	Open Th	reat Mitiga	ate Likely	Serious	s 4-l	High \$	96,000	\$ 192,000	\$ 384,000	32	64 128 Best Case: 32 days x 10 hr. /dayx 4 people x 575/hr. = 506.000 Most Likelije 64 days x 10 hr. /dayx 4 people x 575/hr. = 5192.000 Worst Case: 128 days x 10 hr. /dayx 4 people x 575/hr. = 5384.000	Identify and reprocess problematic product drums prior to AMWTF closure.	Identify problematic product drums while facilities still 4/23/2023 exist for reprocessing	6/30/2024
TRU027	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Small Waste Stream Resource Availability Issues	If development and approval of required TRU waste stream documentation overwhelms available internal personnel resources or 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 Mitiga	ate Possibl	e Critical	il 4-i	High \$	96,000	\$ 192,000	\$ 384,000	64	Most Likely: 128 days x 10 hr./day x 2 people x \$75/hr.=	Utilize CCP AK Support and develop a system to work smaller waste streams and prioritize larger waste streams as they are being developed.	N/A 4/23/2023	6/30/2024
TRU029	D.2.03.34.04	IEC	Loftus, Nathan	N/A	CH-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 Mitiga	ate Likely	Moderat	ite 3-Mo	oderate \$	18,000	\$ 36,000	\$ 54,000	10	20 30 Best Case: 10 days x 10hr./day x 4 people x 545/hr 518.000 Most Likely: 20 days x 10hr./day x 4 people x 545/hr 526.000 Worst Case: 30 days x 10hr./day x 4 people x 545/hr 554.000	waste drums as they come out of storage and	Continued effort in monitoring, testing, and ensuring drum integrity and they prepare to be moved to offsite storage.	6/30/2024
TRU030	D.2.03.34.05	IEC	Loftus, Nathan	N/A	CH-TRU Storage & Movement: Unforeseen Equipment Replacement Need	Need for equipment replacement due to accident, breakdown, end of useful life, fabrication of new drum movement components/attachments, etc.	Replacement parts or replacement vehicles are unable for purchasing or long lead times.	Open Th	reat Mitiga	ate Likely	Moderat	ite 3-Mo	oderate \$	28,800	\$ 64,000	\$ 105,600	16	32 48 Best Care: 16 days x 10hr,/day x 4 people: \$45/hr. = \$28.800 Most Likely; 32 days x 10hr,/day x 4 people: \$50/hr. = \$64,000 Worst Care: 48 days x 10hr,/day x 4 people: x 550/hr. = \$105,600		Monitoring of equipment and planning of purchasing replacement parts/vehicles for future use and aging equipment becomes obsolete.	6/30/2024
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.	Unavailability of raw material to vendor.	Open Th	reat Mitiga	ate Likely	Minor	2-1	-Low \$	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	6/30/2024
TRU032	D.2.03.35.04 D.2.03.35.05	IEC	Hubler, Rachelle	N/A	CH-TRU Packaging and Transportation: CH- TRU/LLW/MLLW 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.	Containers fall inspection or are out-of-compliance.	Open Th	reat Mitiga	ate Likely	Major	r 4-t	s \$	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 45/hr. = \$80,000 Worst Case: 90 days x 10hr./day x 4 people x 45/hr. = \$250,000 Worst Case: 90 days x 10hr./day x 6 people x 45/hr. = \$250,000 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	6/30/2024
TRU033	D.2.03.36.05	IEC	Vargesko, Matt	Zovi, Bruno	AMMTP 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 abile to procure the needed materials may delay onsite macroencapsulation (MACRO) and/or packaging operations. This may cause enough delay to cancel scheduled shipments of treated waste to offsite Treatment, Storage, and Disporal 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.	EC informed of shortage at the time of PR request.	Open Th	reat Mitiga	ate Possibl	e Minor	2-1	-Low \$	15,000	\$ 15,000	\$ 114,000	8	8 32 Best Case: We continue to order MACRO bags and pallets for MLUW shipments, which costs approx. 515,000 per shipment. Most tikely: We continue to order MACRO bags and pallets for MLUW shipments, which costs approx. 515,000 per shipment. Worst Gase: We cannot acquire MACRO bags and must ship a 6 88-90 shipment to WCS instead of NNS. 6 88-90s = 2.55 * 6 = 15.3 m3 1 3.3 m3 macroencepaulation at WCS costs 57449.11 per m3. 15.3 * \$7449.11 = \$113,971 = \$114,000.	MACRO bags and pallets, and procure additional back-up pallets to ensure	N/A 4/23/2023	6/30/2024
TRU034	D.2.03.32.04	IEC	Martin, David	N/A	CH-TRU Treatment Facility Support: Difficult Waste Stream	Delays associated with the treatment of the AE 102/105 waste that prevent the start of the PCB Waste campaign.	Discovery during processing.	Open Th	reat Mitiga	ate Likely	Moderat	ite 3-Mo	oderate \$	24,000	\$ 48,000	\$ 96,000	16	32 64 Best Case: 16 days x 10 hr./dayx 2 people x 575/hr. = \$24,000 Most Usehip 32 days x 10 hr./dayx 2 people x 575/hr. = \$450,000 Worst Case: 64 days x 10 hr./day x 2 people x 575/hr. = \$96,000	any schedule slippage and prevent total	N/A 4/23/2023	6/30/2024
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.	Breakdown during processing.	Open Th	reat Mitiga	ate Possibl	e Serious	s 3-Mo	oderate \$	96,000	\$ 192,000	\$ 384,000	32	64 128 Best Case: 32 days x 10 hr./dayx 4 people x 575/hr. = 596,000 Mont Likehy 64 days x 10 hr./day x 4 people x 575/hr. = 5192,000 Worst Case: 128 days x 10 hr./day x 4 people x 575/hr. = 5384,000	Implement the usage of overtime to recover any schedule slippage and prevent total schedule loss.	N/A 4/23/2023	6/30/2024
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 Th	reat Mitiga	ate Likely	Serious	s 4-h	High \$	96,000	\$ 192,000	\$ 384,000	32		Implement the usage of overtime to recover any schedule slippage and prevent total schedule loss.	N/A 4/23/2023	6/30/2024
TRU039	D.2.03.37.04	IEC	Martin, David	N/A		Advanced Mixed Waste Treatment Project (AMWTP) is an aging facility and project in need of constant repairs for continued operations.	Parts and equipment are unavailable or obsolete to keep equipment operating.	Open Th	reat Mitiga	ate Almost Ce	rtain Serious	s 5-Vei	ry High \$	350,000	\$ 500,000	\$ 1,000,000	16		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	6/30/2024
TRU040	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: BEA Cannot Complete Potential Classified Document Reviews	If BEA is not available to complete potential classified document reviews, then reviews of required Waste Isolation Pilot Plant (WIPP) documents cannot be completed.	Funding is not available for BEA document reviews.	Open Th	reat Accep	pt Likely	Critical	il 5-Vei	ry High \$	156,000	\$ 312,000	\$ 468,000	104	208 312 Best Case: 104 days x 10 hr /day x 2 people x \$75/hr. = \$155,000 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. = \$466,000 Feb.	N/A	Attempt to ensure documents can be provided for CBFO review to support waste certification and the annual recertification audit.	6/30/2024
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.		Open Th	reat Mitiga	ate Rare	Minor	r 1-l	-Low \$	54,000	\$ 81,000	\$ 108,000	4	6 8 Certification rework and repackaging to meet Waste Acceptance Criteria	Ensure proper training and qualifications	N/A 4/23/2023	6/30/2024
TRUD49	D.203.36.04	IEC	Vargesko, Matthew	Vargesko, Matthew	Generated RCRA Waste	Resource Conservation and Recovery Act (RCRA) waste that is generated as part ItC operations must be shipped offsite within 1 year of generation or ICC must provide documentation for waste with no path to disposition. There is risk for funding to not be adequate for his scope due to Icc Must provide documentation for waste with no path to disposition. There is risk for funding to not be adequate for his scope due to Icc taking lower priority. If this risk were to materialize, it would affect shipments to commercial facilities (Le Energy Solutions (S), Waste Control Specialists (WCS), Perms-fix Flordia (PFI)). If we fall to meet the one year to get rid of our New Gen RCRA waste, the DEQ (or FPA if superseded) will likely issue a compliance order, unless we can prove why we need to exceed the one year. It is not likely they will extend the one year for routine Newly Generated RCRA waste (Le, 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 restowed. Not only will there be financial risk, but we also grade it is suppendix of the provided in the provided in the provided in the only will there be financial risk, but we also grade it is a visible to fall to take corrective action within the time specified in compliance order, and we have the Administrator may suspead or revoke any permit sisued to the violatior (whether issued by the Administrator or revoke any permit sisued to the violatior (whether issued by the Administrator or the State).		Open Th	Accel	pt Possibl	e Minor	2-4	\$	37,000	\$ 150,000	\$ 600,000	1	4 16 \$3008(c): Violation of Compliance Orders If a violator falls to take corrective action within the time specified in a compliance order, the Administrator may assess a civil penalty of not more than \$33,200 for each day of continued on compliance 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 2-years. The costs associated with permit suspension/revocation are unknown above and beyond the daily costs of the penalty fees due to the large programmatic impact of such an event.	NI/A	N/A 3/1/2024	6/30/2024



CID 89303321DEM000061/89304223FEM400000, Mod P00041 CLIN 03, Subtask 302

Task Order 3.2

TO3 Phase 2 Risk Register

odated: 8.19.24 Basis of Impacts

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. IEC Risk Back-up Risk Title

<u>CalcineRET1:</u> Loss of Specialty Resources Risk Ratin orst Case: 80 days X 10 hr. X 2 FTE X \$100/hr CAL021 D.3.05.31.04 Lack of existing or incomplete CPP-691 documentation may create a Lack of existing or incomplete drawings Likely CalcineVIT: Lack of CPP-691 Doc need for additional time and resources to perform the field verification at CPP-691. This may cause delays for successor activitie such as creating the 3D model and performing the siting study. Most Likely Case - 8 days x 10 hr./day x 4 FTE x \$100/hr. p CAL022 st and schedule impacts are based on additional field restigations @ CPP-691 requiring additional time and ources. 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. p USS LINENY CASE - 6 days x 10 III./Udg x 4 FTE x 3100/IIII. pilus susurface inwasteziation (£ days x 10 hr. frdax x 1 FTE x and schedule impacts are based on the time it takes to fill a position. Basis is estimated as follows: est Case - Backfill one position (48 days x 10 hr./day x 1 FTE CAL024 adentacio ai suella si basino the sendoro, nesform additional sendi. Il EC is birnigini en vendoro stria are performing work under the BEA SOW. Scope to review vendor reports to determine their adequacy and subsequently equalize the two new vendors with the current established vendor is included in TO3.2. However, if the new vendor work is determined to be adequate, then planned scope to equalize these vendors work may not be necessary. _Most likely Case_Additional 3 months and £30M earls foot and schedule impacts are based on whether equalising of the vendor work is required. Basis is estimated as follows:

- Best Case - Equalization is minimal and the vendor is only required to produce documentation, resulting in 52M under budget and 4 months ahead of sclk/V17hedule.

- Most likely Case - Equalization is necessary but not at the level planned, resulting in 51M under budget and 2 months when a continuation is necessary but not at the level planned, resulting in 51M under budget and 2 months when a continuation is not continuated. Worst Case - Cost and schedule stay as planned and any act 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 example, BEA may have in-house specialist that could participate in eview team on documents being produced under 703.2 scope of work, such as the sking study, treatment study reports, and the Cost and schedule impacts are based on BEA supporting the cope of work and having a positive impact on the schedule. lastis is estimated as follows:

- Best Case - 48 days x 10 hr //day x 4 FTE x \$225/hr.

- Most LikeV; Case - 24 days x 10 hr //day x 4 FTE x \$225/hr.

- Worst Case - 8 days x 10 hr //day x 4 FTE x \$225/hr. CAL030 D.3.05.31.05 Likely Minor CalcineVIT: Optimize Using BEA Business Relationships and Resources Business relationship and resources are available at BEA that are not readily available to IEC. CAL032 D.3.05.31.02 Submitting a delisting petition has been determined to be a viable strategy to pursue and it is assumed the necessary information for a t and schedule impacts are based on possible schedule ays that may be realized. Basis is estimated as follows: strategy to pursue and it is assumed the necessary information for a delisting petition is sufficient after a preliminary review of the delisting process, regulatory requirements, previous delisting petitions, calide data, and the caliding process. If the information not sufficient, then preparing a delisting petition for submission to it slaho DEQ and U.S. EPA may be delayed due to time required to fill any data gaps. - Best Case - One month schedule delay and external analys Worst Case - Three month schedule delay and external lysist are (48 days to identify and evaluate additional data nr./day x 0.5 FTE x \$75/hr. and 2.5 FTE x \$225/hr.) CAL301 D.3.02.30.02 Kimbro, Valerie Calcine: Delay finalizing the Draft 3116 Basis Document due to availability of resources of the availability of resources (external to IEC) are not available to perform their roles in the review of the Draft CSSF 3116 Basis Document. Minor roject realized approximately 20 days of delay in FY 2022 8/19/2024 8/19/202 sources are now available, and this should be considered the orst-case scenario. As such, it was assumed the project would ternal to IEC) to perform their roles in the review of the document. ralize 5 days of delay as the best case and 20 days as the worst ase. Additionally, schedule delays realized by this activity Lase. Administratly, Schedule delays realized by this activity should be categorized as moderate to low, regardless of the cost and schedule impacts, because the decision in this document can be aligned with DOE's commitment to remove calcine from a from a bin set and close the facility. Engage DOE SMEs for SAR revision, engineering analysis and design, nuclear and criticality safety analysis, and operational procedure development to ensure DOE is comfortable with the design and process. CC007 D.1.21.30.16 Mitigate Unlikely Major Best Case: 64 days X 10 hr. X 11.07 FTEs X \$96/hr. Core Car: Operational Readiness Revie (ORR) is Determined to Be Required 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 Circular saw DOE-ICPs not pass test objectives or acceptance criteria in prototype test report. Rare Critical 3.569.520 5.385.960 Case: 96 days X 10 hr. X 16.5 FTEs X \$96/hr. 1.658.040 6/30/202 +\$137,400) Most Likely: 208 days X 10 hr. X 16.5 FTEs X \$96/hr. rototype 2 (+\$274,800) Worst Case: 314 days X 10 hr. X 16.5 FTEs X \$96/hr. (\$412,200) CC027 rtment of Energy determines the Core Car Project meets the est Case: 80 days x 10 hrs/day x 2 FTEs x \$55.74/hr = \$89.184 D.1.21.30 114.824 1.472.79 criteria of a Major Modification prior to the approval of SAR-113 4,824 rst Case:160 days x 10 hrs/day x 9 FTEs x \$102.28/hr = 4 On 2/17/23 NNL notified IEC engineering of a concern 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 schedule impacts will be dependant upon analysis D.1.21.30 results and the new strategy/controls required to n CC301 High hydrogen gas levels between the shipping shield and the RSC could indicate water inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of the RSC will be required, potentially requiring a purge of the RSC to meet HAD requirements. Perform drop analysis to bound shipping shield lid impacts to Railcar/shipping shield/RSC prior to the ai of the railcar. D.1.21.30 Biorn, Scott Performance of shipping shield cavity hydrogen sampling after the railcar is in place at CPP-666. rocure scaffolding and tent materials to be availab CERCLA001 D.4.05.30.09 CERCLA: Evaporation Pond Liner Damage Existing CERCLA Evaporation liner tears which would require Mitigate Unlikely o schedule delays as all other work associated would co ICDF001 D.4.05.31.03 ICDF Ops and Maintenance: Equipment Accept Likely ICDF002 D.4.05.31.03 Zovi, Bruno ICDF Ops and Maintenance: Treatment, Storage, and Disposal Facility (TSDF) Closu Threat Mitigate Likely Minor 4/23/2023 6/30/2024 waste, transportation of that waste will be delayed. It may then Upon TSDF resuming operations ome necessary for the project to incorporate actions to recov ost Likely Case: 12 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT | shipment(s) will commence and schedule will orst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr.+ OT =

ICDF003	D.4.05.31.04	IEC	Orme, Jason	Zovi, Bruno		r During the verification process, if a waste container(s) is found to not be in accordance with the NNSSWAC, the waste will need to be reworked.	A container(s) is identified as damaged, packaged incorrectly, containing uncertified waste, containing prohibited items, etc.	Open	Threat	Mitigate	Likely	Minor	2-Low \$	54,000 \$	81,000 \$	108,000	4	6	8	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$75/hr.+ OT = \$112.50/hr.) Most Likely Case: 61 2 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT		4/23/2023 6/30/2024	
																				= \$112.50/hr.) Worst Case: 16 days x 10 hr./day x 6 FTEs x (\$75/hr.+ OT = \$112.50/hr.)	to recover schedule.		
INDRP001	K.1.03.03.08	IEC	Henry, Jennifer	Henry, Jennifer	Radiation Protection: Spare Rad Instrument Disposal	IEC has several cargo containers at the projects that are filled with oil 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 store 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 nastruments under strict disposal tunliense, the amount of spares to be disposed of could potentially raise a need to become its own deentified work scope with specific allocated resources to complete the work.	or .	Open	Threat	Accept	Almost Certain	Critical	5-Very High S	500,000 \$	3,000,000 \$	5,000,000	0	0		Best Case: they only require a dispose of current inventory of sparesMost Likely: require disposal of current spares and spares that come from current projects such as AR9-Worst Case: require disposal of current spares and spares that come from current projects such as AR9-AGidinosally there would be demo on some buildings as there would be removal in some locations.	N/A	9/11/2023 6/30/2024	
INTECO11R2	D.3.03.32.02	IEC	Baisch, Kasey	Balsch, Kasey	INTEC 80P: Transformer Failure Causes Urscheduled Electrical Outage	A transformer failure can cause an unscheduled power outage with long repair times. Transformers can require long procurement times depending on the size needed. All production could halt within the affected facility due to a lack of electrical power.	exposure to harsh outdoor weather conditions without testing	Open	Threat	Accept	Possible	Minor	2-Low S	250,000 \$	545,600 \$	2,578,000	48	96		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 outgate (PDP-650) for duration of the time it takes to get a new transformer. MATL COST 200k LABON COST: 96 days X 12 Mr. Jdq x SFTE X 500/DM. Worst Case: Transformer failure includes need to replace feeder breakers also and results in sos of 1/J of CIPP-666 for duration of the time it takes to get transformer, breakers, and time to install. MATL COST: 750K, AASOR COST: 160 days X 12 hr. /day x 9 FTE X \$100/Hr.	N/A	3/20/2022 6/30/2024	
INTEC037R2	D.3.03.38.06	IEC	Wilcox, Christophe		INTEC Miscellaneous Paving: Excavation Uncovers Unanticipated Objects	Excavation reveals unidentified objects and/or utilities resulting in a stop work to determine a any additional remediation prior to proceeding with excavation.	An unknown utility or object is discovered during excavation.	Open	Threat	Mitigate	Unlikely	Minor	2-Low S	8,000 S	8,000 S	95,000	1	1	12	DISPLACED WORKER COST: 200K Based on work history of similar projects for number of FTEEtilmated values are:# Days x 10 hrs/day x 8 FTE x \$100/hr	Check weather before hand and have possible weather shelters nearby or on site for emergencies	3/20/2022 6/30/2024	
INTEC038R2	D.3.03.38.06	IEC	Wilcox, Christophe		INTEC Miscellaneous Paving: Clay Layer	Additional excavation may be required to remove an unanticipated	Discovering a clay layer during excavation.	Open	Threat	Accept	Possible	Minor	2-Low \$	8,000 \$	8,000 \$	32,000	1	2	16	Based on work history of similar projects for number of	Ensure operators assigned to the job are familiar and trained to use the equipment	3/20/2022 6/30/2024	
INTEC041R2	D.3.03.38.09	IEC	Klukis, Venita	Christopher Klukis, Venita	Discovered During Excavation NTEC Distributed Control System Upgrades DCS electronics failure.	clay layer under the designated pave/repair area and then place on a compactable base. The DCS electronic systems need to be updated to more readily available products in the event of a system failure. Parts for the currently operated system are not readily available as it is an outdate system.	Outdated DCS equipment falls upon use.	Open	Threat	Mitigate	Possible	Critical	4-High \$	250,000 \$	300,000 \$	500,000	90	150	270	FFEstimated values are:# Days x 10 hrs/day x 8 FFE x \$100/hr in house design delay can be an issue, It will take six weeks to source the job to outside engineering company just to be warred, plus designing period, that would cost three to six months delay on the job.Plus extra cost to the outside company to complete the design. The supply chain could also cause issues depending on availability. So best case is \$250K at 90 days.	provided. Work with engineering to prioritize high risk equipment and replace them first.	3/20/2022 6/30/2024	
INTEC045R2	D.3.03.38.07	IEC	Wilcox, Christopher	Wilcox, Christopher	INTEC CPP-666 Anex HVAC Upgrades: Discovery of Asbestos	The risk of asbestos being discovered during demo and installation requires additional controls.	Asbestos was discovered during demolition and installation.	Open	Threat	Mitigate	Possible	Moderate	2-Low \$	112,000 \$	224,000 \$	336,000	14	28		Since demo is proposed to be completed by force account, this 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 days42 Days	test suspect materials for asbestos.	3/20/2022 6/30/2024	
INTEC059R2	D.3.03.39.02	IEC	Kelly, Patrick	Kelly, Patrick	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 s. work progress and testing.	Open	Threat	Accept	Unlikely	Serious	2-Low \$	30,000 \$	180,000 \$	270,000	30	60	90	Best - 30d x 10 h/d x 1fte x 100/hr = 30,000 Lik - 60d x10h/d x3fte x 100/hr = 180,000 Wo - 90d x 10h/d x 3fte x 100/hr	Have an ECS recovery plan in place to repair the system.	3/20/2022 6/30/2024	
INTEC060R2	D.3.03.39.02		1		Emergency Communication System Alt #1:						Halliah.				90,000 \$				60	=270,000 Best - 14d x 10 h/d x 1fte x 100/hr = 14,000 Lik - 30d x10h/d	Have early communications with BEA and		
		IEC	Kelly, Patrick	Kelly, Patrick	BEA reprograming was not completed in a timely manner.	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	120,000	14	30	30	x3fte x 100/hr = 90,000 Wo - 60d x 10h/d x 2fte x 100/hr =120,000	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing.	3/20/2022 6/30/2024	
INTEC068R2	D.3.03.3C.02	IEC	Kelly, Patrick Klukis, Venita		BEA reprograming was not completed in a timely manner.	Required BEA reprograming at the Central Fire Station for each ECS panel conversion is not completed in a timely manner. Full work scope to re-certify existing PBR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete.		Open Open	Threat			Moderate Minor	2-Low \$	16,500 \$	41,250 \$	120,000 82,500	0	0	0		have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better	3/20/2022 6/30/2024 7/25/2022 6/30/2024	
INTEC068R2	D.3.03.3C.02			Klukis, Venita	BEA reprograming was not completed in a timely manner. INTEC Crane Upgrade: PaR Re-certification	panel conversion is not completed in a timely manner. Full work scope to re-certify existing PaR arm is unknown and could				Mitigate	Likely		2-tow \$ 2-tow \$					0 20	0	Previous quote from 2008 for similar work was \$120K which escalates to \$165K in today's dollars. Worst Case assumes we increase cost by 50%, Most likely assumes we increase cost by \$50%, and Best Case assumes we increase cost by \$10%. This activity is not on the project schedule so no durations were inputted. Work is being performed by subcontractor so, minimal cost will be realized if materials are delayed but the schedule will be pregatively impacted. Most likely scenario is a delay in the	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better determine risk level		
INTECOSOR2 INTECOS2	D.3.03.38.04 D.3.03.32.03	IEC	Klukis, Venita	Klukis, Venita	BEA reprograming was not completed in a timely manner. INTEC Crane Upgrade: PaR Re-certification Scope Definition Material Delays MIEC 902 Crane Repair: Crane 902 Rail Repairs Delays New Crane Install	panel conversion is not completed in a timely manner. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. Cell signal boosters are delayed. Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved.	Vendor inspection and testing upon receipt of PaR arm. Materials are not received on scheduled date.	Open	Threat Threat	Mitigate Accept Accept	Likely Possible Possible	Minor Moderate Moderate	2-Low S		41,250 \$ - \$ 280,000 \$		10	20	40	Previous quote from 2008 for similar work was \$120K which escalates to \$15.6K in today's dollars. Worst Case assumes we increase cost by 50%, Most Likely saumes we increase cost by 25%, and Best Case assumes we increase cost by \$10K. This southwijs not not the project critical path and is not expecta- tionally in pact project schedule so no durations were inputted. Work is being performed by subcontractors on innimal cost will be realized if materials are dealyed but the schedule willow.	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better determine risk level Coordinate with the vendor to schedule the	7/25/2022 6/30/2024 11/17/2022 6/30/2024 4/23/2023 6/30/2024	
INTEC080R2	D.3.03.38.04	IEC	Klukis, Venita Lords, Darin	Klukis, Venita	BEA reprograming was not completed in a timely manner. INTEC Crane Upgrade: PaR Re-certification Scope Definition Material Delays NIEC 902 Crane Repair, Crane 902 Rail	panel conversion is not completed in a timely manner. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. Cell signal boosters are delayed. Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved.	Vendor inspection and testing upon receipt of PaR arm. Materials are not received on scheduled date. Crane rail repairs continue to slip past 10/02/2023.	Open Open	Threat	Mitigate Accept Accept	Likely Possible Possible	Minor Moderate	2-Low \$	16,500 \$	41,250 \$	82,500	0	0	16	Previous quote from 2008 for similar work was \$120K which escalates to \$15EK in today's dollars. Worst Case assumes we increase cost by \$50K, Most Likely saumes we increase cost by \$25K, and Best Case assumes we increase cost by \$25K, and Best Case assumes we increase cost by \$25K, and Best Case assumes we increase cost by \$25K, and Best Case assumes we increase cost by \$50K. This stocking in the project critical parts and is not expenditurely in most or the project critical parts and is not expenditurely in most cost will be realized if materials are dealyed but the schedule vibre realized if materials are dealyed but the schedule vibre personnel so will be negatively impacted. Most likely scenario is a delay in the wendors supply hand in mon workers - 4 days X 10h r/day X 9 FTES X \$50/hr. serror personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. serror personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. serror personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. serror personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. serror personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days X 10h r/day X 9 FTES X \$50/hr. server personnel - 12 days	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better determine risk level Coordinate with the vendor to schedule the installation when the materials are available. N/A Work OT to recover schedule slip later once the paperwork is approved to install the crane	7/25/2022 6/30/2024 11/17/2022 6/30/2024	
INTECOSOR2 INTECOS2	D.3.03.38.04 D.3.03.32.03	IEC IEC	Klukis, Venita Lords, Darin Hamilton, Rob	Klukis, Venita Lords, Darin N/A Balsch, Kasey	BEA reprograming was not completed in a timely manner. INTEC Crane Upgrade: PaR Re-certification scope Definition Material Delays INTEC 902 Crane Repair. Crane 902 Rail Repairs Delays New Crane Install INTEC 902 Crane Repair. Crane 902 Rail Repairs Delays New Crane Install	panel conversion is not completed in a timely manner. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. Cell signal boosters are delayed. Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved. 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 tolerance on ont allow for proper operation of the crane and for fridge motor tolerance of the cable reel and/or bridge motor tolerance.	Vendor inspection and testing upon receipt of PaR arm. Materials are not received on scheduled date. Crane rail repairs continue to slip past 10/02/2023. Installation of the crane.	Open Open Open	Threat Threat	Accept Accept	Likely Possible Possible	Minor Moderate Moderate	2-Low S	16,500 S	41,250 \$ - \$ 280,000 \$	82,500	20	0	0 0 40 116 144 144 144 144 144 144 144 144 144	Previous quote from 2008 for similar work was 5120K which escalates to 5165K in today's dollars. Worst Case assumes we horease cost by 50%, Most Likely assumes we increase cost by 25%, and Best Case assumes we increase cost by 25%, and Best Case assumes we increase cost by 25%, and Best Case assumes we increase cost by 25%, and Best Case assumes we increase cost by 50%. This activity is not on the project critical path and is not expendit project of the project prictal path and is not expendit project to adversely impact project schedule so no durations were inputted. Work is being performed by subcontractors on, innimal cost will be realized if materials are dealyed but the schedule will be negatively impacted. Most likely scenario is a delay in the wendors supply via practed. Most likely scenario is a delay in the wendors supply via practed. Most likely scenario is a delay in the wendors supply via practed. Most likely scenario is a delay in the wendors supply via practed. Most likely scenario is a delay in the wendors supply via practed. Most likely scenario is a delay in the work of the s	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better determine risk level Coordinate with the vendor to schedule the installation when the materials are available. N/A Work OT to recover schedule slip later once the paperwork is approved to install the crane	7/25/2022 6/30/2024 11/17/2022 6/30/2024 4/23/2023 6/30/2024	
INTEC08072 INTEC082 INTEC083	D.3.03.38.04 D.3.03.32.03 D.3.03.32.03	IEC IEC	Klukis, Venita Lords, Darin Hamilton, Rob	Kluks, Venita Lords, Darin N/A Baisch, Kasey	BEA reprograming was not completed in a timely manner. INTEC Grane Upgrade: PaR Re-certification Scope Definition Material Delays INTEC 902 Crane Repair: Crane 902 Rail Repairs Delays New Crane Install INTEC 902 Crane Repair: Cable Reel and Bridge Motor Impact Clearance Tolerances	panel conversion is not completed in a timely manner. Full work scope to re-certify existing PaR arm is unknown and could exceed estimated cost and schedule once vendor evaluation is complete. Cell signal boosters are delayed. Crane rail repairs take longer than anticipated and are not completed by the time new crane shows and paperwork to install is approved. 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 real 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.	Vendor inspection and testing upon receipt of PaR arm. Materials are not received on scheduled date. Crane rail repairs continue to slip past 10/02/2023. Installation of the crane. Equipment is backordered or has excessive lead times or Equipment arrives and does not function as needed. A Major Noncompliance event occurs.	Open Open Open	Threat Threat	Accept Accept Accept	Likely Possible Possible Rare	Minor Moderate Moderate	2-Low S S 3-Low S S 3-Low S S 5-Low S	16,500 \$ - \$ 140,000 \$ \$	41,250 \$ \$ 280,000 \$	82,500 - 500,000	20	20 0	0 0 16 40 16 44 44 44 44	Previous quote from 2008 for similar work was \$120K which escalates to \$15EK in today's dollars. Worst Case assumes we increase cost by 50K, Most Likely saumes we increase cost by 25K, and Best Case assumes we increase cost by 25K, and Best Case assumes we increase cost by 25K, and Best Case assumes we increase cost by 25K, and Best Case assumes we increase cost by 25K, and Best Case assumes we increase cost by 25K, and Best Case assumes we increase cost by 510K. This constitution is a constitution of the project critical part and is not expected to adversely impact for project sichedules on of urations were inputted. Work is being performed by subcontractors on, minimal cost will be realized if materials are delayed but the schedule ville bengatively impacted. Most likely scenario is a delay in the vendors supply chain. Best Case PPE costs-\$1800(5500/ent/py/person) per week. Straight time for union workers - 4 days X 10 hr /day X 9 FTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 FTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTEs X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 days X 10 hr /day X 9 TTES X \$50f/hr. Descript personnel - 12 day	have needed necessary documentation in place to allow coordination between IEC and BEA for needed programing. Inspect PaR arm prior to shipment to better determine risk level Coordinate with the vendor to schedule the installation when the materials are available. N/A Work OT to recover schedule slip later once the paperwork is approved to install the crane	7/25/2022 6/30/2024 11/17/2022 6/30/2024 4/23/2023 6/30/2024 4/11/2023 6/30/2024	

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 equipment failure can cause unscheduled outages to repair and turn the equipment failure acn cause unscheduled outages to repair and turn the equipment back over to operations.	Equipment falls.	Open	Threat Ac	cept Almos	st Certain Cr	ritical	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.	N/A		5/18/2023 6/30/2024	
INTEC300	D.3.03.3A	IEC	Wilcox, Christopher	Wilcox, Christopher	INTEC Firewater System: Backfill Compaction Testing	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.	Fall backfill compaction testing on test sites.	Open	Threat Ac	cept Po	ossible M	finor	2-Low \$	32,000	\$ 128,000	\$ 256,000 4	16	32	Fall 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 6/30/2024	The workorder did not call out testing for backfill lifts to meet 95% compaction per 5PC-2879. Force Account backfilled in the same manner to achieve 95% compaction, but no testing was performed on the project for backfilling activities.
INTEC301	D.3.03.38.07	IEC	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 Ac	cept Li	Likely M	Ainor	2-Low \$	-	\$ -	\$ - 8	16	32	Subcontractor for project and the subs under contract sub are working at MFC and had their completion date moved forware 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 6/30/2024	Based on work history for number of FTE Estimated values are: #I Days x 10 hr/day x 8 FTE x \$100/hr. 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 does 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 Ac	cept Almos	st Certain Mo	derate	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.		3/1/2024 6/30/2024	
INTEC306	D.3.03.36.02	IEC	Klukis, Venita		Waste Boxes Requires Additional Processing Before Disposal	Waste boxes do not meet specifications for disposal requiring them to be processed at an offsite facility or to be shipped to a different location, creating higher disposal fees.	Waste container does not meet shipping requirements.	Open	Threat Mit	igate Li	ikely M	Minor	2-Low \$	70,000	\$ 140,000	\$ 280,000 8	8	8	Vulnerabilities previously paid a company about \$60,000 per box for disposal. To account for inflation the costs will be set a \$70,000 per box. Best case is 1 box. Most likely is 2 boxes. Worst case is 4 boxes. Time is set at two weeks to coordinate sending the boxes to an off-site facility to be processed.			5/20/2024 6/30/2024	
INTEC307	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Hardware procurement issues	Hardware could have long lead times causing schedule impacts for implementation. Hardware could also be unavailable or very difficult to locate causing budget and schedule impacts.	Procurement of hardware.	Open	Threat Ac	cept Pos	ossible M	Major	4-High \$	1,000	\$ 2,000	\$ 3,000 48	96	182	3, 6, and 12 months delay with minimal cost impacts since project would shut down until materials arrived.	N/A		5/20/2024 6/30/2024	
INTEC308	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Engineering resources become limited durin project execution	g (With limited personnel the DCS engineering group could experience reduction in personnel due to attrition or health issues. This would create longer lead times to complete items.	DCS engineer leaves the department or is placed on STD/LTD.	Open	Threat Ac	cept Po:	ossible M	Major	4-High \$	1,000	\$ 2,000	\$ 2,000 24	96		Best case: 6 weeks for the typical amount of time someone is on STD. Cost impacts are minimal since the project will be on hold until personnel return. Most Likely: 6 months for someone who needs the full time o STD. Cost impacts are minimal since the project will be on hold until personnel return. Worst case: 6 months to hie and train a replacement. Cost impacts are minimal since the project will be on hold until	1		5/20/2024 6/30/2024	
INTEC309	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Current system design has unknown aspects	The current system does not have drawings or documentation which could cause the project to encounter unknown aspects or conditions during investigation, installation, and testing.	Unknown condition encountered at any time during project.	Open	Threat Ac	cept Po:	ossible M	Minor	2-Low \$	5,000	\$ 10,000	\$ 20,000 8	16		personnel have been trained. Best case: two weeks to investigate issues and purchase additional software or hardware to address. Most Likely: 1 month	N/A		5/20/2024 6/30/2024	
INTEC310	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Testing after installation is not successful	After the installation of the software and hardware, during testing, it is discovered the system is not operational as intended.	Testing of system does not end in viable equipment.	Open	Threat Ac	cept Un	nlikely M	Ainor	2-Low \$	1,000	\$ 50,000	\$ 300,000 8	16	182	Worst case: 2 months Best Case: Possible bugs that need to be addressed causing th schedule to move 2 weeks and minimal costs incurred. Most Ukely: Engineering requires 1 month to address issues along with purchasing new equipment. Worst Case: The new system is not viable causing an entire	e		5/20/2024 6/30/2024	
INTEC311	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Incompatabilities with other field devices	During installation of the new software and hardware it is discovered that the current field equipment (IO, VFDs, etc.) are not compatible and do not function properly.		Open	Threat Ac	cept Po:	ossible Se	erious	3-Moderate \$	5,000	\$ 50,000	\$ 175,000 16	48	96	redesigns: Best case: engineering requires 1 month to purchase software or hardware to create a bridge to equipment Most Likely: three months with software and hardware purchases Worst case: New VFDS, IO, et will need to be purchased that compatible with system requiring formonts and extensive			5/20/2024 6/30/2024	
INTEC312	D.3.03.38.09	IEC	Klukis, Venita	Klukis, Venita	Software development could require more time than anticipated	Software development for an aged system could prove to be more complicated than originally planned leading to additional man hours and schedule changes that will delay the project.	Software development does not finish within scheduled period.	Open	Threat Ac	cept Li	ikely M	Ainor	2-Low \$	8,000	\$ 16,000	\$ 32,000 8	16	32	costs. Design engineering labor hours will be the only impact so their time is assumed to be \$100 per hour. Schedule impacts are estimates only and could vary.			5/20/2024 6/30/2024	
INTEC313	D.3.03.3C.02	IEC	Klukis, Venita	Klukis, Venita	Lost or damaged equipment during shipping	sing scircular changes that will be applied project. E. Lost or damaged equipment during shipping.	Shipping boxes.	Open	Threat Ac	cept R	Rare Cr	ritical	3-Moderate \$	330,000	\$ 660,000	\$ 1,000,000 366	366	366	"Worst case is based off of replacing the entire assembly of th PaR. Most likely and best case are broken down by 1/3 of ML. Long lead times from PaR. *Note these lead times may extend out past the Task Order	e		5/20/2024 6/30/2024	
INTEC314	D.3.03.36.02	IEC	Klukis, Venita	Klukis, Venita	Damage to the Crane Impacts schedule	Due to the vital nature of the crane to this project scope any unforseen damage to the crane could significantly impact cost schedule.	Damage to crane	Realized	Threat Ac	cept Almos	st Certain N	Major	5-Very High \$	50,000	\$ 100,000	\$ 250,000 48	96	366	time constraints." Previous damage to crane took approximately 2 years to get tack into operation. Costs are based on escalation/inflation possibilities of the work being pushed. "Note these lead times may extend out past the Task Order time constraints."			5/20/2024 6/30/2024	
INTEC315	D.3.03.38.04	IEC	Kelly, Patrick	Kelly, Patrick	Insufficient signal strength	Insufficient signal strength may require relocate external antennas.	Signal strength test comes back lower than adequate.	Open	Threat Ac	cept Li	ikely Se	erious	4-High \$	100,000	\$ 129,000	\$ 150,000 48	64	96	cost of DCS plu/minus 25%			5/20/2024 6/30/2024	
INTEC317	D.3.03.36.02	IEC	Klukis, Venita	Klukis, Venita	Filter door maintenance cannot be performed	The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues forcing engineering to redesign the door closure system for faster, simpler future maintenance	The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues	Realize	Threat Ac	cept R	Rare Se	erious	2-Low \$	15,000	\$ 30,000	\$ 45,000 32	64		Best case: design, build, and install of 12 door closures \$15K at best estimate of the cost of materials Most Likely. design, build, and install of 12 door closures and 6 new doors \$30K. Worst case: design, build, and install of 12 door closures and 3 new doors \$40K.			5/20/2024 6/30/2024	
IT002	D.6.02.36	IEC	Anderson, Jade	Anderson, Jade	Information Technology: Personnel Attrition	h Hiring (personnel Attrition) - down three developers for almost a year finding qualified and capable individuals is complicated. Key primary contributors take promotions or leave the company during project execution.	Continuation of project is impacted by lack of enough trained personnel.	Realized	Threat Ac	cept Po:	ossible Se	erious	3-Moderate \$	216,000	\$ 576,000	\$ 1,296,000 24	64	144	new doors \$45K 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.= \$576,001 Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$51,296,000	N/A		5/20/2024 6/30/2024	
IT004	D.6.02.38.01	IEC	Anderson, Jade	N/A	Information Technology: Subcontractor Availability	Subcontractor availability (wheeler electric, Leverage) preference and availability.	Preferred subcontractor is unavailable.	Open	Threat Mit	igate F	Rare Se	erious	2-Low \$	216,000	\$ 576,000	\$ 1,296,000 24	64	144	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.= \$576,001 Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$1,296,000	Develop a request for back-up subcontractor.	: N/A	4/23/2023 6/30/2024	
IT005	D.6.02.34, D.6.02.36, D.6.03.33	IEC	Anderson, Jade	Anderson, Jade	Information Technology: Unforeseen Structural Issues During Operations	Unforeseen structural issues would require involving our facilities and the schedule is at risk of being pushed to their timeline. The expectation is minimal structural issues, a sizeable structural concern will cause delays, possible engineering contractors, structural contractors, electricians, and increased costs.	A sizeable structural concern is discovered.	Open	Threat Ac	cept Un	nlikely Cr	ritical	3-Moderate \$	320,000	\$ 960,000	\$ 1,920,000 40	120		Best Case: 40 days x 10 hrs/day x 4 FTEs x \$200/hr = \$320,000 Most Likely: 120 days x 10 hrs/day x 4 FTEs x \$200/hr = \$960,000 Worst Case: 240 days x 10 hrs/day x 4 FTEs x \$200/hr = \$1,920,000	N/A		5/20/2024 6/30/2024	
IT010	D.6.02.36.01,.04- .07	IEC	Anderson, Jade	N/A	Information Technology: Software Upgrades	Scheduling testing for software upgrades (ARB risk assessments for Cyber and TI) - Derogatory information discovered during risk assessment, or software vulnerabilities discovered render software or hardware item unfit for use at ICP.	Discovery of derogatory information.	Open	Threat Mit	igate Un	nlikely M	1inor	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 Worst Case: 64 days x 10 hr./day x 2 FTEs x \$225/hr.= \$288,001	vulnerabilities and adjust coding as necessary	y N/A	4/23/2023 6/30/2024	
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 locate items that are of limited supply. 	Cannot source Hardware.	Open	Threat Ac	cept Po	ossible Se	rious	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 tilely; 64 days x 10 hr /day x 4 FTEs x \$225/hr = \$576,000 Most Leiky; 64 days x 10 hr /day x 4 FTEs x \$225/hr = \$1,296,000	N/A	N/A	6/30/2024	
17013	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., ransomware.	Technical issues or major failures occur.	Open	Threat Ac	cept Po	ossible Cr	ritical	4-High S	320,000	\$ 960,000	\$ 1,920,000 40	120		Best Case: 40 days x 10 hr./day x 4 FTEs x \$200/hr.= \$320,000 Most Ukely: 120 days x 10 hr./day x 4 FTEs x \$200/hr.= \$3500/hr.= \$3560,000 Worst Case: 240 days x 10 hr./day x 4 FTEs x \$200/hr.= \$1,920,000	N/A	N/A	4/23/2023 6/30/2024	
IT014	D.6.02.40	IEC	Anderson, Jade	Anderson, Jade	Information Technology: Utilization of Fiber During Upgrades	The current plan is to replace all the fiber, but an analysis may indicate that the project doesn't have to utilize all of the fiber purchased.Locating efficiencies along the way.	Realization of not all fiber needing to be replaced once it is dug up.	Open	Opportunity Ac	cept Pos	ossible M	Ainor	2-Low \$	(1,278,720)	\$ (692,480)	\$ (266,240) -120	-60		Worst Case: 40 days x 10 hrs/day x 2 FTEs x \$200/hr = - \$150,000 plus material costs of -\$106,240/host likely: 120 day x 10 hrs/day x 2 FTEs x \$200/hr = -\$800,000 plus material cost of -\$212,480 Best Case: 240 days x 10 hrs/day x 2 FTEs x \$200/hr = -\$960,000 plus material cost of -\$318,720			6/1/2024 6/30/2024	

17306	D.6.02.35	IEC	Anderson, Jade	Anderson, Jade	Additional Equipment needed for Network Refresh.		The final design has completed, and it determines there is a delta between equipment in stock and equipment needed.	Emerging Thre	at Mitigate	Almost Certain	Major	5-Very High \$	800,000	\$ 1,400,000	\$ 300,000	48 96	124 This equipment will be needed to complete the Network Refresh project. Otherwise, the project will be put on hold unt equipment can be purchased.		There will be a delta between equipment already purchased and equipment needed to complete the project.	Toward the end of T03P1, the subcontractor for this project presented us with a BOM for additional equipment to complete this project worth ~53M. This cost was not planned in T03P2. The IECT I staff estimates this equipment cost to actually be ~\$1.4M.
IT307	K.1.02.04	IEC	Anderson, Jade	Anderson, Jade	New VMWare pricing structure not budgete in FY25.	d VMWare is changing to a per-CPU-Core pricing model. Currently, we are paying \$80K for a 3-year license, which expires this year. If we do nothing, the new license will be \$500K years/ It is currently looking at changes and could possibly get this cost down to "\$340K.		Emerging Thre	at Mitigate	Almost Certain	Moderate	4-High \$	80,000	\$ 340,000	\$ 500,000	0 0	VMWare is changing to a per-CPU-Core pricing model. Currently, we are paying \$80K for a 3-year license, which expires this year. If we do nothing, the new license will be \$500K yearly.	Changing our Virtual Machine infrastructure Exploring other VM products.	. 6/10/21	44 6/30/2024
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 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 negotiated, a new RFP may be required.		Realized Thre	at Accept	Rare	Critical	3-Moderate \$	1,000,000	\$ 5,000,000	\$ 20,000,000	10 20	40 Best Case: 10 days (2% increase in subcontractor cost) = .2 X SSM Most Likely Case: 20 days (5% increase in subcontractor cost) = 1 X SSM Worst Case: 40 days (10% increase in subcontractor cost) = 4 X	N/A	N/A 9/21/21	22 6/30/2024
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.	Discovering: (Examples) Un-identified utilities, Rad contamination	Open Thre	at Accept	Rare	Minor	1-Low \$	30,000	\$ 75,000	\$ 1,200,000	2 5	80 Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 80 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A 9/21/20	22 6/30/2024
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 potential for a stop work or a new CD evaluation could evolve.	Archaeology artifacts	Open Thre	at Accept	Rare	Minor	1-Low \$	30,000	\$ 75,000	\$ 300,000	2 5	20 Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A 9/21/2	2 6/30/2024
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.	Open Thre	at Accept	Rare	Minor	1-Low \$	30,000	\$ 75,000	\$ 1,440,000	2 5	Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr. 96 Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A 9/21/20	2 6/30/2024
NICDF030R2	D.4.06.37.05	IEC	Reese, Craig	N/A	New ICDF Cell: Overtime Required	To maintain project schedule, overtime is required to maintain or recover project schedule.	Technical or installation issues cause schedule delays require overtime recover or maintain project schedule.	Open Thre	at Accept	Possible	Moderate	2-Low \$	144,000	\$ 288,000	\$ 432,000	16 32	Worst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr. 48 Best Case: 16 days X 1 hr./day X 120 FTEs X \$75/hr. Most Likely Case: 32 days X 1 hr./day X 120 FTEs X \$75/hr.	N/A	N/A 12/8/21	22 6/30/2024
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.	Spring and fall weather prevent construction work at the site.	Open Thre	at Accept	Possible	Minor	2-Low \$	75,000	\$ 225,000	\$ 675,000	5 15	Worst Case: 48 days X 1 hr./day X 120 FTEs X \$75/hr. 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.	N/A	N/A 12/8/2	2 6/30/2024
NICDF037a	D.4.06.30	IEC	Reese, Craig	Reese, Craig	New ICDF Cell: BEA Support Services Do Not Meet ICDF Scheduled Need Dates	t 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	BEA power services do not provide power in a timely manner.	Open Thre	at Shared	Unlikely	Minor	2-Low \$	60,000	\$ 240,000	\$ 2,640,000	4 16	Worst Case: 45 days X 10 hr./day X 20 FTEs X \$75/hr. 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 Shared to DOE	N/A 2/2/20	3 6/30/2024
NICDF303	D.4.06.37	IEC	Reese, Craig	Reese, Craig	Subcontractor / Lower Tier Contractor Schedule Does Not Align With IEC Baseline	takes the subcontractor to perform the site prep. and excavation,	Subcontractor schedule is different than proposed baseline schedule.	Realized Thre	at Accept	Possible	Minor	2-Low \$	30,000	\$ 60,000	\$ 300,000	2 4	20 Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 4 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	6/15/21	24 6/30/2024
NRFDD008R2	32D.5.01.30.20D.5.0	IEC	Burtenshaw, Shawna				An unanticipated event driven by discovery of contamination	Open Thre	at Accept	Unlikely	Moderate	2-Low \$	100,000	\$ 500,000	\$ 1,000,000	10 24	Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr. 32 Impacts are estimated based on loss of contamination	N/A	3/20/2022 10/9/2	13 6/30/2024
NRFDD009	D.5.01.32	IEC	Burtenshaw, Shawna		Control NRF Naval Reactors: NRF West Gate Access	demolition may result in personnel contamination and/or extended shutdown for recovery. The West entrance for NRF using gate 4 has Limited ingress/egress for the heavy equipment and wasts chipments due to high wolfage proper	The heavy Equipment and waste loads ingressing or egressing	Open Thre	at Accept	Likely	Minor	2-Low \$	21,000	\$ 42,000	\$ 84,000	4 8	requiring 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 Case: 8 days X 10 hrs/dy X 7 FTEs X \$75/hr Morst Case: 16 days		INCOMPLETE 7/10/21	3 6/30/2024
NRFDD010	D.5.01.32	IEC	Burtenshaw Shawo-		NRF Naval Reactors: A1W Turnower Delawed	the heavy equipment and waste shipments due to high voltage power conductors overhead. This work scope is based off an FMP schedule with a phased approach	13' in height that will require an alternate route or complicated high voltage power outage.	Open Thre	at Accept	Rare	Minor	1-Low \$	21,000	\$ 42,000	\$ 84,000	4 8	Case: 8 days X 10 hrs/dy X 7 FTEs X 575/hrWorst Case: 16 days X10 hrs/dy X 7 FTEs X \$75/hr 16 Best Case: 4 days X 10 hrs./day X 7 FTEs X \$75/hr. Most Likely	N/A	4/12/2022 7/10/2	3 6/30/2024
	5.3.01.32	i.c.	_ Jitcii Jilawi, Silawiii	Shawna		Inis work scope is oased off an HMP 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.	production of not connect over ab Scheduled.	Open Infe	Accept	naie	Tomics	5	21,000	42,000	- 84,000		16 Sest Lase: 4 days X IJ Uns./day X FFLES X 5/5/nr. Most Likely Case: 8 days X 10 hr.3/day X FFEs X \$75/hr. Worst Case: 16 days X10 hrs./day X 7 FTEs X \$75/hr.		//10/28	-,50/200-
NRFDD011	D.5.01.32			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 incur additional costs & schedule delays.		Open Thre		Rare	Moderate	1-Low \$	37,500				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		3 6/30/2024
NRFDD012	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 accident resulting in injury or near miss.	Open Thre	at Accept	Rare	Critical	3-Moderate \$	750,000	\$ 1,500,000	\$ 3,000,000	100 180	204 Best Case: 100 days x 10 hrs,/dayx 8 people x \$93/hr. = \$750,000 Most Likely: 180 days x 10 hrs, /day x 8 people x \$93/hr. = \$1,500,000 Worst Case: 204 days x 10 hrs,/day x 8 people x \$93/hr. = \$3,000,000	N/A	3/20/2022 7/10/2	3 6/30/2024
RHTRU001R2	D.2.04.30.14	IEC	Troescher, Pat Troescher, Pat	N/A	RH-TRU Waste Disposition: Achieving PY2A/25 Processing Lot 11 Containers Due to Critical Failure of Equipment RH-TRU Waste Disposition: Achieving PY2A/25 Millestones for Processing Lot 11 Containers Due to Complex Geometries	Achievement of the FY24 of processing 10 tot 11 containers and the OFZ5 of processing 10 tot 11 containers, due to critical failure of equipment, impacts the flash Settlement Agreement (SA) and Delay to site treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho. Achievement of the FY24 milestone of processing 10 Lot 11 containers and the FY25 milestone of processing 10 Lot 11 containers, due to inability to treat sodium in waste with complex geometries, impacts the Idaho Settlement Agreement (SA) and Delay to site reterment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.	specific to: 1. Procure manipulators 2. Design, procure, and modify FDPA in-cell crane from analog to digital. Complex geometries containing sodium or waste containing significant quantities (-100g) of NaX are found in repackaging tot	Open Thre	at Accept		Moderate		16,600				Costs 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 - fee Most Likely: 22 days down time X 20 FTES X \$41.50/hr. X 10hr. \$265,500 - fee Worst Case: 64 days down time x 20 FTES X \$41.50/hr. X 10hr. \$353,200 - fee Schedule impact is based off \$05 system being down and in need of repair. Best Case: 8 days down time X 5 FTES X \$41.50/hr. X 10hr. = \$15,600 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		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 some parts of the project tracks and some parts of the ventor of the critical MSM and some parts of the par	2 6/30/2024
RHTRU003	D.2.04.30.14	IEC	Troescher, Pat	N/A	RH-TRU Waste Disposition: Processing Lot 1 Containers	Processing lot 11 containers are taking longer than planned due to inaccurate generator information. Causing the use of OT to catch up.		Open Thre	at Mitigate	Possible	Minor	2-Low S	24,900			2 4	8 Best Case: 2 days OT X 20 FTEs X \$41.50/hr. X 1.0 hr. X 1.5 OT = \$23,900 Most Likely: 4days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$48,800 Worst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$75,600	slippage and reduce further schedule interruptions.	treatment and disposal. If any waste components that are found or large quantities (> 100g) of Nat that cannot be water treated, then the components will be stored until an operations time slot is available to perform distillation. N/A 4/23/2i	3 6/30/2024
RHTRU300	D.2.04.30	IEC	Troescher, Patrick	Troescher, Patrick	RH TRU disposition exhausts stoagre space.	There is a risk that the HH 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. Therefore, not being able to ship the waste will also producing additional waste will exhaust storage space.	Emerging Thre	at Accept	Almost Certain	Minor	3-Moderate \$	10,000,000	\$ 13,500,000	\$ 15,000,000	64 80	These impacts are based on the remaining wast to be porcessed against space needed for storage.		3/1/26	The percentage of drums generated that are greater than 200 mR/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 mR/hr. Based on the current generation rate and 30% of drums generated, the RH TRU project will run out of space in three years (best case). Most liekly case he stainsted the RH TRU project will run out of space in one year.
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-GSF-401), certain PaR motions appear to be or are abnormal/malfunctioning. Failure of the manipulators results in	Open Thre	at Accept	Likely	Minor	2-Low \$	107,016	\$ 214,032	\$ 535,080	7 14	35 Best Case: 7 days X 12 hr. X 13 FTEs X \$98/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr. 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. 3/20/21	22 6/30/2024
SNF008R2	D.1.02.32.31	IEC	Ellsworth, Carla			ATR-Direct: High rad fields in the cave cause premature failure of the cameras in the CPP-603 fuel handling cave.	schedule delays.	Open Thre	at Mitigate	Likely	Minor	2-Low \$	45,864	\$ 214,032	\$ 428,064	3 14	28 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.		22 6/30/2024
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 Thre	at Accept	Possible	Minor	2-Low \$	45,864	\$ 214,032	\$ 428,064	3 14	28 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	-Purchase Back-up Cameras N/A	Work with DOE/BEA to ensure project activities 3/20/2t comply with security plan.	12 6/30/2024
SNF010R2	D.1.02.34.02	IEC	Ellsworth, Carla	N/A	CPP-749 1st Generation Vaults Remediation Inadequate Shielding Results in Exorbitant Radiation Level	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.	Radiation Technician surveys of the 1st Generation Vault area indicate higher than allowable radiation levels.	Open Thre	at 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.	22 6/30/2024
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SNF011R2	D.1.02.34.02	IEC	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	\$ 21	4,032 \$	535,080 7	14	204	Best Case: 7 days X 12 hr. X 13 FTEs X 598/hr. Most Ukely: 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 fuel package will be delayed until a recovery plan is developed/approved and readled to work. A conceptual design for retrieval equipment capable of safely lifting a jeopardized fuel package has been developed and reviewed/approved by DDE.	3/20/2022 6/30/	22024
SNF015R2	D.1.02.32.31	IEC	Ellsworth, Carla		IEC schedule Delay Caused by ATR	ATR Direct: IEC schedule delay caused by ATR.	Equipment and/or operations delays at ATR cause delayed or moved shipment dates to INTEC.	Open	Threat		Almost Certain	Minor	2-Low	45,864		0,000 \$	1,700,000 3	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.	N/A	3/20/2022 6/30/	
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 tound to be damaged or damaged when remotely attempting to open/close a clamp.	Open	Threat	Accept	Possible	Critical	4-High	\$ 1,231,258	\$ 2,30	8,608 \$	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	3/20/2022 6/30/	2024
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.		Open	Threat	Mitigate	Rare	Moderate	1-Low	\$ 675,000	\$ 2,02	5,000 \$	5,400,000 30	60	120	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	1/11/2023 6/30/	2024
SNF025R2	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Qualified Subcontractors	Cask vendor not on Qualified Supplier List (QSL) at the appropriate quality level.	No qualified vendor, for cask procurement, identified during solicitation process.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 3,000,000	\$ 5,00	0,000 \$	8,000,000 120	180	300	Best Case: S3M in design rework Likely Case: S5M in design rework and reordering of materials. Worst Case: S8M	Perform a QL assessment to evaluate the subcontractor's quality program. The contractor has to be an NQA-1 qualified for equipment and quality level QL-2. Road Ready Demonstration is acting to get	N/A	1/11/2023 6/30/	2024
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	Discovery of utility lines and/or subsurface security systems	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 51,600	\$ 12	6,000 \$	242,000 16	32	64	Best Case: Redesign the pad to not impact existing	the contractor approved at an appropriate quality level QL-2.	Relocate the pad or change the shape of the pad to	4/23/2023 6/30/	2024
				.,,.		be rerouted based upon location of the staging facility.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,								,,,,,				infrastructure/utilities: 1 subcontractor for 1 additional month worth of work for \$50K and 1 FTE in engineering for 1 month § \$100/hr. Most Likely: 3 FTE for 2 months § \$100/hr.to design reroutes and \$30,000 in construction costs Worst Case: 3 FTE for 4 months § \$100/hr.to design reroute		avoid existing utilities if possible	,,,,,,,,,	
SNF039	D.1.04.03.03	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Nuclear Safety Documents	Per STD-1189-2016 it was determined that the Staging Facility will be a simple modification and be able to fall under existing SAR 112 and SAR 114. This means that a Safety Design Strategy will not be performed for this project. The building may not be a simple mod an that a Safety design strategy will be required.	modification.	Realized	Threat	Accept	Possible	Critical	4-High	\$ 500,000	\$ 75	0,000 \$	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	4/23/2023 6/30/	2024
SNF042	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Security System and Facility Design Contract	There are two design aspects considered for the ID SNF-SF: 1) BEA will perform the security design for the ID SNF-SF, 2) The SNF-SF pad design will be performed via subcontract.	Agreements/contracts are not established as planned. The designs do not maintain the schedule duration.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 200,000	\$ 50	0,000 \$	1,000,000 24	32	56	Develop a second SOW, work through a second contract through subcontract administration. Additional coordination for IEC to manage two engineering firms and process	N/A	Segregate the requirement of 1 contract. Develop a second statement of work and contract a local engineering firm to perform the security design.	4/23/2023 6/30/	2024
						Work performed for the interdependent designs exceed scheduled duration(s).	BEA does not perform the security design causing for additional time to setup a contract.													paperwork. Best Cas: «weeks @ 40hr /week x 1 FTE Ø \$100/hr.+4 week Ø 95 hr. for sub administration Ø \$80/hr. Most Likely: 4 weeks @ 40hr/week x 1 FTE Ø \$100/hr.+4 weeks @ 95 hr. for sub administration Ø \$80/hr. Worst Case. 8 weeks Ø 40hr. /week x 2 FTE Ø \$100/hr.+6 weeks Ø 95 hr. for sub administration Ø \$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 equipment, which leaves the possibility of project schedule delays if	Training received from subcontractor is delayed.	Closed	Threat	Accept	Unlikely	Major	3-Moderate	\$ 100,000	\$ 15	0,000 \$	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 6/30/	2024
SNF054	D.1.02.34.02	IEC	Reynolds, Boedre	N/A	Peach Bottom: Mobile Crane Maintenance	subcontractor is delayed. Exceeding the Mobile Crane manufacturers recommended operating hours for performing routine maintenance delays Peach Bottom transfers.	Mobile Crane operator observes the machines monitoring system and concludes the manufactures recommended operating hours are exceeded.	Realized	Threat	Mitigate	Possible	Minor	2-Low	\$ 15,500	\$ 4	6,000 \$	62,000 1	2	4	Best Case: 1 day plus equipment/materials Most Likely Case: 2 days plus equipment/materials Worst Case: 4 days plus equipment/materials	I.) increase periodicity of planned maintenance. 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	4/23/2023 6/30/	22024
SNF068	D.1.04.02.02	IEC	Cotterell, Jaksen	N/A	SNF Staging Facility: Geotechnical Drilling 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		Closed	Threat	Accept	Likely	Serious	4-High	\$ 316,000	\$ 56	4,000 \$	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	N/A	N/A	4/24/2023 6/30/	2024
SNF324	D.1.02.36.08	IEC	Woolstenhulme,			or parts of the equipment have to be replaced. Delay of Holtec being on the QSL as a QL-2 supplier will cause delay to								\$ 200,000		0,000 \$	500,000 32	48	96	Best Case: Equipment can be wiped down by IEC personnel spend 2 weeks wiping down subcontractor equipment 4 peopl @ \$50/m. for 80 burs. Subcontractor loss 3 weeks on other projects - cost @ \$1.00K 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 their project of 4 weeks @ \$100K per week and \$50K in delays on other project of 4 equipment 4 people @ \$50/m. 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			4/1/2024 6/30/	
3NF324	D.1.02.30.08	iec	Tyson	Tyson	Supplier Delay - Holtec	Delay or notice, being of in the CSL as a CLL2 supplier will cause delay or placement of contract for Holtec provided Items.	a QL-2 supplier.	Realized	Inreat	Ассерс	Almost Certain	serious	s-very nigit	200,000	\$ 40	3,000	300,000 32	46	90	Holter is currently certified as a QL-2 supplier for Engineering services only. Additionally IEC requires a validation audit for compliance with QARD Rev 20. Fabrication facility needs audited prior to and fabrication work performed.	QA department to provide notice with a checklist of potential audit requirements to allow Holtec to understand requirements. Add item on schedule to track audit scheduling and completion.		4/1/2024 6/30/	2024
SNF325	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	SNF Packaging Criteria	Oue to the Office of Civilian Radioactive Waste Management (OCRMM) organization no longer defining SNP Packaging criteria, IEC cannot load and close a transportation acceptable SNF Cask.	Lack of current acceptance criteria prevents IEC from developing Data Packages that would be acceptable to ship to a Final Repository.	Open	Threat	Accept	Possible	Critical	4-High	\$ 2,700,000	\$ 4,10	5,000 \$	5,400,000 208	312	416		DOE-ID to work with DOE-HQ and other regulatory agencies to clearly define acceptance criteria for a Road Ready acceptable cask. Additionally, IEC is developing a regulatory strategy to present for our stance on Licensing for packaging, transportation, and storage of SNF.		4/1/2024 6/30/	2024
SNF326	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Delay of Items Provided by Holtec	Delay of delivery of Holtec provided items will cause a significant delato the project.	ay Holtec unable to receive material or fabricate items according to IEC Schedule.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,200,000	\$ 1,80	0,000 \$	5,000,000 48	96	192		Work with Holtec to identify possible delays due to supply chain issues. Also mitigating by purchasing long lead items at risk to minimize impacts to schedule.		4/1/2024 6/30/	2024
SNF330	D.1.02.36.07	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	PaR Equipment Failure	The 401 PaR replacement Project delay or lack of funding could caus delay to Road Ready Project in the event of PAR equipment failure.	e PaR currently does not allow for recovery operations in the even 101 Crane failure.	t Open	Threat	Accept	Possible	Major	4-High	\$ 250,000	\$ 50	0,000 \$	750,000 48	96	192		By keeping all PM's current, this will allow for continued use of the PaR until funding can be obtained to upgrade or replace. These PM's will also track potential issues. Additionally infrastructure Organization is planning on upgrading and refurbishing an on-site PaR as a spare.		4/1/2024 6/30/	2024
SNF331	D.1.02.36.07	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Falled Root Weld	BEA/Liburdi weld repair machine cannot successfully repair a failed root weld.	Failed root weld discovered.	Open	Threat	Accept	Likely	Serious	4-High	\$ 350,000	\$ 70	0,000 \$	150,000 20	52	96		For the Road Ready Demonstration, 10 DOESC's will be procured. The Demonstration will be loading? DOESC's with 3 spares. In the vener of a compromised DOESC, the fuel can be reloaded into a spare DOESC and welload Additionally, the welling will be done in the PCS which will also allow for safely manually grinding of the well.		4/1/2024 6/30/	2024
SNF333	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Complications of West Truck Ramp Construction	Contruction of the West Truck Ramp Fill-in encounters unknown anomalies which causes a delay in schedule and added costs to project.	During excavation of the West Truck Ramp Fill in, unexpected facility/soil conditions are encountered.	Open	Threat	Accept	Likely	Serious	4-High	\$ 150,000	\$ 30	0,000 \$	450,000 32	64	96		Prior to performing excavation activities, all Team members performing or monitoring work will be briefed on the nature of the facility including age and possible unknown conditions. Engineering to provide oversight and help resolve issues encountered to minimize schedule impact.		4/1/2024 6/30/	
SNF334	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	West Truck Ramp Design	Design of the West Truck Ramp Fill-in could cause the project to be delayed.	During design of the West Truck Ramp Fills in to be able to place a loaded Cask in the Ramp area is will take significant effort to achieve the structural support for Cask storage.	Open	Threat	Accept	Likely	Serious	4-High	\$ 150,000	\$ 30	0,000 \$	450,000 32	64	96		During the design process, MCP-3358 to evaluate the structural integrity of the facility and modifications wil be followed. A critical decision will be made to determine feasability to place cask in the crane envelope on the West Truck Ramp compared to costs and effort.		4/1/2024 6/30/	

3/4/33/	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Drop Analysis Delay	If the analysis of a drop of a cask is not done prior to SAR revisions then the project may be delayed.	During operations, a cask drop occurs.	Open	Threat	Accept	Likely	Serious	4-High	\$ 150,000	S	300,000 \$	\$ 450,000	32	64	96		During the design process, MCP-3358 to levaluate the structural integrity of the facility and modifications wib le followed. If the analysis shows failure of the west truck ramp will occur, the movement of the Crane will be mitigated by administrative controls in the proper procedure. If a cask drop occurs during operations, MCP-3358 will be followed to determine extent of the damage.		6/30/2024
SNF338	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Transfer Route Not Approved	Road Ready Demonstration Transfer route is not approved for Vertic Cask Transporter (VCT) use.	al Engineering evaluation of potential transfer routes identifies that no route is acceptable for VCT.	Open	Threat I	Mitigate	Likely	Major	4-High	\$ 500,000	\$	1,000,000 \$	\$ 1,500,000	48	96	144		Possible heavy construction of transfer route path to improve road capacity. Alternative methods of trained roaks to include heavy haut trailer and renting single failure proof cane or similar method to transfer cask. Engineering will facilitate further discussion to develop process pror to Road Read Demonstration. Other possible options include end state location of loaded cask to be within the CPP-603 building.	4/1/2024	6/30/2024
SNF339	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Insufficient Maintenance Funding	Road Ready Project schedule may be delayed in the event that insufficient maintenance funding is available to update facilities, systems, equipment, and infrastructure or recover from significant system failures.	Failure of components, system, equipment, or structures.	Open	Threat	Accept	Likely	Moderate	3-Moderate	\$ 200,000	\$	300,000 \$	500,000	30	32	48		Maintain the Facility/Equipment. Replacement of the MSM and its approximate costs were determined from \$13K/day crew costs applied to a 3, 6 and 12- month period.	4/1/2024	6/30/2024
SNF340	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Tyson		CPP-603 Cave does not have necessary utilities to support Packaging Demonstration Operations.	Demonstration equipment from being installed in the CPP-603 fuel handling cave. Some of these lacking features include necessary power, gas, data and airline cabling.				Possible	Critical	4-High	\$ 5,000,000		7,500,000 \$	10,000,000	30	32	34		This risk will be mitigated through engineering of Road Ready handling tools used in the 603 Cave as well as process changes from remote welding to welding in the PCS.		6/30/2024
SNF341	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	CCP-603 Cave Does Not Have Adequate Power	CPP-603 Cave does not have adequate power to operate Packaging Demonstration Equipment.	Inadequate power in the CPP-603 Cave prevents Packaging Demonstration operations (such as welding the DOE Standard Canister) from occurring.	Realized	Threat	Mitigate	Possible	Critical	4-High	\$ 5,000,000	\$	7,500,000 \$	10,000,000	30	32	34		This risk will be mitigated through engineering of Road Ready handling tools used in the 603 Cave as well as process changes from remote welding to welding in the PCS.	4/1/2024	6/30/2024
SNF342	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	CPP-603 Crane Failure Impacts 101 or 401	Fuel operations will be impacted by 101 or 401 crane failure in CPP- 603 fuel handling cave.	During crane fuel movements the crane fails to respond as designed.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 200,000	\$	300,000 \$	500,000	30	32	48	The costs listed from delays are based on a \$13k/day cost to operate a SNF crew extended over a 1.9, 2.0 and 3 month time		4/1/2024	6/30/2024
SNF343	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Holtec Contract Delay	Contract Delay for Holles/ORT to obtain a Foreign Ownership, Contr or Influence. (FOCI) approval to allow IEC to place contract for equipment.	ol, Vendor delays getting FOCI or is rejected.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,200,000	D S	1,800,000 \$	5,000,000	48	96	192	per tota.	Chee Privily. Our immersioner be peruniment. September 2000 Congleted, and DOD to get PCOL completed, and DOD Except DOD's PCOL completed, and DOD Except DOD's PCOL approval. If Evel (CNF) does not orbane PCOL approval. IEC will select alternative supplier (Spectrafield) because they are a partnering team member and IEC has an IDIQ master contract in place. If IEC cannot use Spectrafield, IEC will need to develop new SOM, but it out for bid get bids back, perform analysis, select vendor, issue contract. If vendor is not currently not in out currently not contract. If vendor is not currently not in out currently not process.		6/30/2024
																						FOCI for Holtec/ORT not necessary as information provided will not be sensitive.		
SNF347	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Woolstenhulme, Tyson	Delay in PCS Modifications	Due to facility layout and any delay in work on the West Truck Ramp Fill-in could potentially cause a delay in Permanent Containment Structure (PCS) modifications.	Work on the West Truck Ramp Fill-in prevents work on the PCS modifications due to work in same area being scheduled on same day.	Open	Threat	Accept	Likely	Critical	S-Very High	\$ 5,000,000	\$	7,500,000 \$	10,000,000	14	16	18		Project Management will work with work crews during construction to identify any potential delays during Truck Ramp fill-in and schedule PCS modifications accordingly. Additionally, any work that can be performed on the PCS modifications outside of the affected area will be identified and performed to not impact schedule.		6/30/2024
SNF352	D.1.02.30	IEC	Ellsworth, Carla	Ellsworth, Carla	Maintain Crews	Project has to maintain crews in the event BEA does not send the planned ATR receipts.	BEA sends less than the planned ATR receipts.	Open	Threat	Accept	Possible	Serious	3-Moderate	\$ 240,000	\$	720,000 \$	960,000	16	43	184	Impacts are estimated based on the \$120,000 per transfer that is not received, and amount of time crews have to be allocated		6/1/2024	6/30/2024
SNF353	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla	DCS: Project is More Complex Than Originall Planned For	ly After beginning the Distributed Control System project, scope is realized to be more complex than originally anticipated. This will	Emergent problems and/or more complex system are discovered that require attention before moving forward.	Emerging	Threat	Accept	Likely	Major	4-High	\$ 100,000	\$	800,000 \$	1,500,000	23	79	143	to different scope. Impacts are estimated based off historical variance and SME judgement.		6/1/2024	6/30/2024
SNF354	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla	DCS: Schedule Delays Due to Higher Prioritie	result in schedule and cost increases to revisit and solve issues. Other work takes priority and pushes out install of DCS panels. Resul	its Other projects take priority over DCS.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 15,000) \$	75,000 \$	\$ 300,000	12	32	96	Impacts are estimated based on SME judgement for other		6/1/2024	6/30/2024
SNF355	D.1.02.33	IEC	Ellsworth, Carla	Ellsworth, Carla	DCS: Loss of SME Experience	in schedule delays. Less experienced staff take longer to complete schedule activities than originally planned. The project will experience schedule delays	Project loses experienced personnel.	Emerging	Threat	Accept	Possible	Major	4-High	\$ 30,000	\$	150,000 \$	250,000	16	87	176	project projections. Estimates are based on historical variance and SME judgement.		6/1/2024	6/30/2024
TO3002R2	Project Wide	IEC	Multiple CAMs	Multiple Projects	Global Risk: Work Delay Due to Abnormal Weather Conditions	and cost increases. 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 closure.	Open	Threat	Accept	Possible	Serious	3-Moderate	\$ 500,000	\$	1,000,000 \$	7,000,000	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	6/30/2024
TO3005R2	Project Wide	IEC	Multiple CAMs	Multiple Projects	<u>Global Risk:</u> Stop Work Due to External Events	External event(s) at other INL locations or DOE sites cause a stop work.	External event(s) at other INL locations or other DOE 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 Cleanup Project (ICP) causing a stop work, etc.	Open	Threat	Accept	Unlikely	Serious	2-Low	\$ 500,000	\$	1,000,000 \$	7,000,000	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	6/30/2024
	Project Wide	IEC			Line-Item Project Funding	Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (ICC), limitation of base scope execution ma be experienced as a direct result of variability in funding, in ballity 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.	y limpact the execution of the base scope.	Open	Threat	Share Aln	lmost Certain	Critical	5-Very High	\$ 1,000,000,000	\$ 1,5	350,000,000 \$	1,700,000,000	900	1,350	1,800	Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE	11/20/2023	6/30/2024
TRU007R2	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification	If WIPP certified characterization equipment falls and can no longer be used, then CH TRU waste certification and shipment could be impacted. The equipment is older technology that is still in use.	Failure of nondestructive assay or real-time-radiography equipment.	Open	Threat I	Mitigate	Unlikely	Major	3-Moderate	\$ 24,000	\$	102,000 \$	153,000	16	68		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.=\$102,000 Worst Case: 102 days x 10 hr./day x 2 people x \$75/hr.= \$153,000		Continue to perform maintenance on equipment, keep spare parts on hand, and monitor data quality to verify systems are operating normally.	6/30/2024
TRU012R2	D.2.03.31.06	IEC	Byram, George	N/A	Assay (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 assays results for the entire inventory of waste containers at the RWMC, then both TRU and MLIW certification cannot be completed. This may result in the need for repeakaging of C waste containers by splitting the waste into multiple daughter containers, and/or a other mean 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	Threat I	Mitigate	Rare	Moderate	1-Low	\$ 48,000	5	96,000 \$	\$ 144,000	16	32	48	Best Case: 16 days x 10 hr /day x 4 people x 575/hr.= \$48,000 Morst Likely; 32 days x 10 hr /day x 4 people x 575/hr.= \$96,000 Worst Case: 48 days x 10 hr /day x 4 people x 575/hr.= \$144,000	Provide additional monitoring for NDA results, identify problematic wase, and make notification. Use dose to Currie results for an RH generated waste.	2	6/30/2024
TRU019R2	0.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: The Annual Ste Treatment Plan Milestone is Missed	If the annual Site Treatment Plan milestone is missed, then potential significant cost impact due to lost fee and holdback resulting from IDEQ penalty.	I A)The risk that IEC will lose critical personnel and will be unable to fill available positions with experienced staff to complete critical Acceptable Knowledge, Site Project Manager, Certification, Real Time Radiography, Non-Destructive Assay, etc., activities in support of profiling and certification of waste streams B)Delays in external, DDE-ID and the CBPO, approvals of critical documents in support of TRU waste characterization, profiling and certification. C)CBPO requires an action and DDE-ID requires something different. This could potentially generate orphan waste; or could delay waste processing, require reprocessing, reduler profiling and certification. D) 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.	Open	Threat	Mitigate	Possible	Serious	3-Moderate	\$ 51,200	5	99,200 \$	\$ 201,600	32	62	84	Best Case: 32 days x 10 hr./day x 2 people x \$80/hr:= \$51,200 Most Likely, 62 days x 10 hr./day x 2 people x \$90/hr:= \$95,200 Worst Case: 84 days x 10 hr./day x 3 people x \$80/hr:= \$5201,600	Provide cross training between disciplines and increase communication with the ODE-II and CBFO to minimize, and challenges with them as they arise.		6/30/2024
TRU022	D.2.03.31.06	IEC	Byram, George	N/A	CH-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	Threat I	Mitigate	Possible	Serious	3-Moderate	\$ 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		N/A 4/23/2023	6/30/2024
TRU023	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: CERCLA Facility Unavailability for Sampling/Remediation	If sampling and/or remediation (ammonium nitrate filters, high uranium, etc.) of CERCLA waste is necessary and an ARP facility is no available, then a onn-RCRA facility will be required with potential update of ARP waste CERCLA requirements.	ARP waste requires reprocessing or testing.	Open	Threat I	Mitigate	Likely	Serious	4-High	\$ 96,000	\$	192,000 \$	384,000	32	64	128	Best Case: 32 days x 10 hr./day x 4 people x 575/hr.= 996,000 Most Likely, 64 days x 10 hr./day x 4 people x 575/hr.= \$192,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr.= \$384,000	testing. If results show that ammonium nitrate in ARP waste is acceptable, risk can be		6/30/2024
TRU024	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Waste Does Not Meet Basis of Knowledge (BoK) Criteria	If containers do not meet BoX requirements, then additional processing will be required.	Containers fall Bok criteria.	Open	Threat I	Mitigate	Possible	Moderate	2-Low	\$ 24,000	\$	48,000 \$	96,000	16	32	64	Best Case: 16 days x 10 hr./day x 2 people x \$75/hr. = \$24,000 Most Likely: 32 days x 10 hr./day x 2 people x \$75/hr. = \$48,000 Worst Case: 64 days x 10 hr./day x 2 people x \$75/hr. = \$96,000	necessary.	Continue BoK calculations for waste destined for WIPP. 4/23/2023 and make notifications if any fail.	6/30/2024

TRU025	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Product Drums Cannot be Certified	If TRU product drums that fail 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.	Product drums cannot be certified due to CI failure and cannot be overpacked into an SWB.	Open T	Threat N	Mitigate	Possible	Serious	3-Moderati	te \$	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 Ukely: 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		Assign product drums to SWBs as they fail C1 and make notifications if FGE assignment precludes overpack.	6/30/2024
TRU026	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition: Product Drums Require Reprocessing and Facility is Not Available	If TRU product drums must be reprocessed (liquid, high Fissile Gram Equivalence (FGE), crit cleanout puck, etc.), and Advanced Mixed Waste Treatment Facility (AMVFI) is not available, then containers cannot be reprocessed and cannot be certified.	Product drums cannot be certified due to prohibited condition and the AMWTF is not available for reprocessing.	Open T	Threat M	Mitigate	Likely	Serious	4-High	s	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 Ukely: 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.=\$192,000 \$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	6/30/2024
TRU027	D.2.03.31.06	IEC	Byram, George		CH-TRU Waste Disposition: Small Waste Stream Resource Availability Issues	If development and approval of required TRU waste stream documentation overwhelms available internal personnel resources or 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 T	Threat M	Mitigate	Possible	Critical	4-High	\$	96,000 \$	192,000	\$ 384,000	64		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.		6/30/2024
TRU029	D.2.03.34.04	IEC	Loftus, Nathan	N/A	CH-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 T	'hreat N	Mitigate	Likely	Moderate	3-Moderate	te \$	18,000 \$	36,000	\$ 54,000	10		Most Likely: 20 days x 10hr./day x 4 people x \$45/hr. = \$36,000 Worst Case: 30 days x 10hr./day x 4 people x \$45/hr. = \$54,000	waste drums as they come out of storage and in process of being moved.	site storage.	
TRU030	D.2.03.34.05	IEC	Loftus, Nathan	N/A	CH-TRU Storage & Movement: Unforeseen Equipment Replacement Need	useful life, fabrication of new drum movement components/attachments, etc.	purchasing or long lead times.	Open T	'hreat N	Mitigate	Likely	Moderate	3-Moderate	te \$	28,800 \$					Most Likely: 32 days x 10hr./day x 4 people x \$50/hr. = \$64,000 Worst Case: 48 days x 10hr./day x 4 people x \$55/hr. = \$105,600	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.	
TRU031	D.2.03.35.06	IEC	Hubler, Rachelle		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 T	Threat N	Mitigate	Likely	Minor	2-Low	\$	14,400 \$	28,800	\$ 43,200	8		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	forecast for future purchases.	Find alternative commodities compatible with scope requirements. 4/23/2023	
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.	Containers fail inspection or are out-of-compliance.	Open T	hreat M	Mitigate	Likely	Major	4-High	s	80,000 \$	100,000	\$ 250,000	50	0 75 90	Best Case: 50 days x 10hr. (4day x 4 people x 45)hr. = \$80,000 Worst Case: 90 days x 10hr. (4day x 6 people x 45)hr. = \$500,000 Worst Case: 90 days x 10hr. (4day x 6 people x 45)hr. = \$250,000 Transportation and loading/unloading costs \$130K-\$200K Inspection costs \$80k-\$250K	Increase monitoring and testing the integrity of LLW/MLIW drums before shipping to storage facility.	WIPP may change their requirements or may introduce 4723/2023 new interpretations of existing requirements, resulting in delays associated with profiling and certification or may necessitate reprocessing of waste	6/30/2024
TRU033	D.2.03.36.05	IEC	Vargesko, Matt	Zovi, Bruno	AMWTP LIW/MLW Disposition: Pallet and/or Nacroba 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 trinely manner. Not being able to procure the needed materials may delay onsite macroencapsulation (MACRO) and/or packaging operations. This may cause enough delay to cancel scheduled shipments of treated waste to offsite Treatment, Storage, and Disposal Facilities (TSDFs). If we must go to another vendor for materials, it can increase material ost. if we must ship to a commercial facility instead of the Nevada National Security Site (NNSS), it will greatly increase cost.		Open T	Threat M	Mitigate	Possible	Minor	2-Low	\$	15,000 \$	15,000	\$ 114,000	8	8 8 32	Best Case: We continue to order MACRO bags and pallets for MLUW shipments, which costs approx. \$15,000 per shipment. Most Ukely: We continue to order MACRO bags and pallets for MLUW shipments, which costs approx. \$25,000 per shipment. Worst Case: We cannot acquire MACRO bags and must ship a 6 Bis-90 shipment to WCS instead of NMSS. 6 BR-90s 2.55 ° 6 = 15.3m3. 15.3m3 macrenerapsulation at WCS costs \$7449.11 per m3. 15.3 * \$7449.11 = \$113,971 = \$114,000.	MACRO bags and pallets, and procure additional back-up pallets to ensure packaging operations remain uninterrupted.	N/A 4/23/2023	6/30/2024
TRU034	D.2.03.32.04	IEC	Martin, David	N/A	CH-TRU Treatment Facility Support: Difficult Waste Stream	Delays associated with the treatment of the AE 102/105 waste that prevent the start of the PCB Waste campaign.	Discovery during processing.	Open T	'hreat N	Mitigate	Likely	Moderate	3-Moderati	te \$	24,000 \$	48,000	\$ 96,000	16	32 64	Best Case: 16 days x 10 hr /day x 2 people x \$75/hr. = \$24,000 Most Likely: 32 days x 10 hr /day x 2 people x \$75/hr. = \$48,000 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	6/30/2024
TRU035	D.2.03.32.05	IEC	Martin, David		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.				Mitigate	Possible	Serious	3-Moderati		96,000 \$	192,000				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	any schedule slippage and prevent total schedule loss.		6/30/2024
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 T	Threat N	Mitigate	Likely	Serious	4-High	\$	96,000 \$	192,000	\$ 384,000	32	64 128	Best Case: 32 days x 10 hr./day x 4 people x 575/hr. = \$96,000 Most Likely: 64 days x 10 hr./day x 4 people x \$75/hr. = \$192,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr. = \$384,000	Implement the usage of overtime to recover any schedule slippage and prevent total schedule loss.	N/A 4/23/2023	6/30/2024
TRU039	D.2.03.37.04	IEC	Martin, David	N/A	<u>AMWTP BOP Maintenance</u> : Replacement Parts Are Out of Compliance or Unavailable	Advanced Mixed Waste Treatment Project (AMWTP) is an aging facility and project in need of constant repairs for continued operations.	Parts and equipment are unavailable or obsolete to keep equipment operating.	Open T	'hreat N	Mitigate A	Almost Certain	Serious	5-Very High	gh \$	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	6/30/2024
TRU040	D.2.03.31.06	IEC	Byram, George	N/A	CH-TRU Waste Disposition; BEA Cannot Complete Potential Classified Document Reviews	If BEA is not available to complete potential classified document reviews, then reviews of required Waste Isolation Pilot Plant (WIPP) documents cannot be completed.	Funding is not available for BEA document reviews.	Open T	'hreat .	Accept	Likely	Critical	S-Very High	sh \$	156,000 \$	312,000	\$ 468,000	104	04 208 312	Best Case: 104 days x 10 hr./day x 2 people x \$75/hr. = \$156,000 Most Ukely: 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.	6/30/2024
TRU043	D.2.05.30.19	IEC	Zovi, Bruno	Orme, Jason	Non-AMWTP Treatment and Disposal: Wast Container Treatment, Storage, and Disposal Facility (TSDF) Certification Failure	 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 uncertified waste, containing prohibited items, etc.	Open T	Threat N	Mitigate	Rare	Minor	1-Low		54,000 \$	81,000	\$ 108,000	4	4 6 8	Certification rework and repackaging to meet Waste Acceptance Criteria	Ensure proper training and qualifications	N/A 4/23/2023	6/30/2024
TRU049	D.2.03.36.04	IEC	Vargesko, Matthew	Vargesko, Matthew	Generated RCRA Waste	Recourse Conservation and Recovery Act (RCAA) waste that is generated as part IEC operations must be shipped offisite within 1 year of generation or IEC must provide documentation for wastes with no ask to disposition. There is risk for funding to not be adequate for this scope due to it taking lower priority. If this risk were to materialize, it would affect shipments to commercial calcillates (Le. Energy Solutions (ES), Waste Control Specialists (WCS), Perma-Fix Florida (PFR)). If we fail to meet the one year to get rid of our New Gen RCRA waste, the DEQ (or EPA if superseded) will likely issue a compliance order, unless we can prove why we need to exceed the one year. It is not lakely they will extend the one year for routine Newly Generated RCRA waste (Le. 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 familiar its, but we also risk suspension/losing our RCRA Permit (j) based on the following rule: If a violator fails to take corrective action within the time specified in compliance order, and without the province of the own of the revolved any permit is suspended or revoked, it takes quite some time for the Sattel, If our RCRA permit is suspended or revoked, it takes quite some time tog et it back, more than likely 1-2 years. This would greatly impact	acceptable timeframe.	Open T	hreat	Accept	Possible	Minor	2-Low	s	37,000 \$	150,000	\$ 600,000	1	1 4 16	\$3008(F.Vivolation of Compliance Orders if a violator falls to take corrective action within the time specified in a compliance order, the Administrator may assess civil penalty of norm ore than \$37.500 for each day of continued noncompliance with the order. In addition, the EPA Administrator may suspend or revoke any permit Issued by the Administrator or the State). If our RCRA permit is suspended or revoked, it takes quite some time to get the back, more than likely 1-2 years. The costs associated with permit suspension/revocation are unknown above and bepond the daily costs of the penalty fees due to the large programmatic impact of such an event.		3/1/2024	6/30/2024