AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CO	NTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
				1 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE D	DATE 4	REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
P00050	See Bloc	k 16C		
CODE	893042			00701
EM-Idaho		1	J.S. Department of Energy	
Department of Energy			Idaho Operations Office	
Unice of Environmental Mana	agement		1955 Fremont Avenue	
1955 Fremont Avenue			Idano fails id 05415	
Idaho Falls ID 83415				
8. NAME AND ADDRESS OF CONTRACTOR (No., street	t, county, State and Z	IP Code)	9A. AMENDMENT OF SOLICITATION NO.	
		(*		
IDAHO ENVIRONMENTAL COALITIO	N LLC			
Attn: Jason Mack			9B. DATED (SEE TIEM TI)	
UU WIIIIAM Northern Biva				
ullanoma in 575004729		2	10A. MODIFICATION OF CONTRACT/ORDER	NO.
			89304223FEM400000	
			10B_DATED (SEE /TEM 13)	
LQ5ZLNE3EM2/			0970872023	
	11. THIS ITEN	I ONLY APPLIES TO AM	ENDMENTS OF SOLICITATIONS	
13. THIS ITEM ONLY APPLIES TO M CHECK ONE A. THIS CHANGE ORDER IS ISSUED I ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRAL appropriation data, etc.)	DODIFICATION OF PURSUANT TO: (S CT/ORDER IS MOI H IN ITEM 14, PUF	CONTRACTS/ORDERS. Specify authority) THE C DIFIED TO REFLECT TH SUANT TO THE AUTHO	IT MODIFIES THE CONTRACT/ORDER NO. AS D HANGES SET FORTH IN ITEM 14 ARE MADE IN HE ADMINISTRATIVE CHANGES (such as change RITY OF FAR 43,103(b).	ESCRIBED IN ITEM 14.
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED IN	TO PURSUANT TO AUT	HORITY OF:	
X FAR 43.103(a) Bilate	ral			
D. OTHER (Specify type of modification	and authority)			
E. IMPORTANT: Contractor 🗌 is not	X is required to	sign this document and r	eturn1_ copies to the issu	ing office.
14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by UC	F section headings, inclu	ding solicitation/contract subject matter where feas	sible.)
JEI: LQ5ZLNE3EM27				
The purpose of this modifica	tion is t	o update the	Risk Registers for Task	Order (TO)-3.2,
TO-5.1, TO-6.1, and TO-7.1 (see below	for details).	
Payment:				
DR for Idaho				
J.S. Department of Energy				
Dak Ridge Financial Service	Center			
2.0. Box 6017				
Dak Ridge TN 37831				
Period of Performance: 10/01	/2023 to	09/30/2031		
Continued		,		
Except as provided herein all terms and conditions of the	ne document refere	enced in Item 9 A or 104	as heretofore changed, remains unchanged and in	n full force and effect
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFF	FICER (Type or print)
			Crace II Duit	
KIMBERLI SOUTHWICK Digit	ally signed by	KIMBERLI	Grace H. Kulz	
15B. CONTRACTOR/OFFEROR	THWICK (Affi l i		16E SHARE TES OF AMERICAN Signed by	16C. DATE SIGNED
(Annuale) Date	2024.10.20	9:06:15 -06'00'	RUIZ Date: 2024.10.21	10/21/2024
(Signature of person authorized to sign)			(Signature of Contracting Officer)	

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016) Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION SHEETREFERENCE NO. OF DOCUMENT BEING CONTINUED
89303321DEM000061/89304223FEM400000/P00050PAGEOF
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NAME OF OFFEROR OR CONTRACTOR IDAHO ENVIRONMENTAL COALITION LLC

TEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Change Item 00005 to read as follows(amount shown is the total amount):				
00005	CLIN 05 SUBTASK 0501 NAVAL REACTORS S1W D&D (TASK ORDER 5.1) Line item value is: \$58,691,405.00 Incrementally Funded Amount: \$29,150,000.00				58,691,405.00
	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-5.1, Naval Reactors S1W D&D (See Attachments IEC Risk Register_FY24 Annual Updated and DOE Risk Register_FY24 Annual Updated).				
	All other terms and conditions remain unchanged. 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: \$706,211,106.00 Incrementally Funded Amount: \$415,516,447.21				706,211,106.00
	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 IEC Risk Register_FY24 Annual Updated and DOE Risk Register_FY24 Annual Updated).				
	All other terms and conditions remain unchanged.				
	Continued				

CONTINUATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED PAGE OF 89303321DEM000061/89304223FEM400000/P00050 3 3

NAME OF OFFEROR OR CONTRACTOR IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Change Item 00601 to read as follows(amount shown is the total amount):				
00601	CLIN 06 SUBTASK 0601 NON-DEFENSE PROJECT (TASK ORDER 6.1) Line item value is: \$13,449,425.00 Incrementally Funded Amount: \$9,910,716.75				13,449,425.00
	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-6.1, Non-Defense Project (See Attachments IEC Risk Register_FY24 Annual Updated and DOE Risk Register_FY24 Annual Updated).				
	All other terms and conditions remain unchanged.				
	Change Item 00701 to read as follows(amount shown is the total amount):				
00701	CLIN 07 SUBTASK 0701 IWTU OPERATIONS (TASK ORDER 7.1) Line item value is: \$233,119,349.00 Incrementally Funded Amount: \$118,310,681.42				233,119,349.00
	<pre>In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-7.1, Integrated Waste Treatment Unit Operations (See Attachments IEC Risk Register_FY24 Annual Updated and DOE Risk Register_FY24 Annual Updated). All other terms and conditions remain unchanged.</pre>				
NSN 7540-01-152	-8067	I			OPTIONAL FORM 336 (4-86)



Idaho Cleanup Project Programmatic Risk Register

Upda	ted to : 9.30.24	8						1	1	1							Cost Impacts		Schedule	mpacts (in da	i)			
	Risk ID	Task Order	WBS	Responsible Organization	n DOE FPD	IEC POC	Risk Title	Risk Description	Trigger Event	Status	Risk Type	Handling Strategy	Risk Event Likelihood	Risk Impact	Risk Rating	Best Case	Most Likely	Worst Case	Best Case	Most We Likely Ca	e Basis of Impacts	Mitigation Actions	Last update	Notes
C	AL007OR2	тозр2	D.3.02.30.08	DOE	Balsmeier, Greg	Kimbro, Valerie	Change in Definition Interpretation of High-Level Waste-Opportunity	of 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 dispose alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing).	High level waste definition interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste.	Open	Opportunity	Transfer	Rare	Minor	1-Low	\$ (150,000) \$	(100,000)	\$ (80,000	-150	-150 -1		Transfer to DOE	7/16/2024	None
C	AL007TR2	TO3P2	D.3.02.30.08	DOE	Balsmeier, Greg	Kimbro, Valerie	Change in Definition Interpretation of High-Level Waste-Threat	of 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 disposa alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing).	High level waste definition 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	\$ 80,000 \$	100,000	\$ 150,000	60	150 1		Transfer to DOE	7/16/2024	None
	DST300	TO3P2	Project Wide	DOE	Unknown	Perry, Scott	IEC is Required to Implement DOE- STD-3009-2014	DOE directs IEC to update safety basis documents to the 2014 version of DOE-STD-3009-2014, "Preparation of Nonreactor Nuclear Facility Documented Safety Analysis". This would require additional funding and reallocating resources to perform the updates and will cause delays to other work scope.	IEC is given formal DDC direction to update Documented Safety Analyses to align with DDE- STD-3009-2014 (safety basis documents are currently written to the 1994 version of DOE-STD- 3009).	Open	Threat	Transfer	Likely	Critical	5-Very High	\$ 600,000 \$	2,000,000	\$ 2,600,000	100	208 3	Impacts for this risk have been reduced to fit it 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 an revising 8 IEC SARs written to DOE-STD-3009, including any necessary subcontract labor. Th best case is that writing to the 2014 version of DOE-STD-3009 would be only when required ft new facilities or major modifications per DOE- STD-1189. The worst case is based on directio to write to the 2014 version regardless of the requirements in DOE-STD-1189.	Work with DOE to implement a phased approach to minimize delays to other scope.	7/16/2024	The long-term effects of this risk are estimated to cost \$20M+ and require 3,328 days worked into IEC's schedule. These numbers have been reduced to adhere to a Task Order Contract, but the significant impacts should be recognized.
DS	T5506-005	TO3P2	D.6.04.01.01, D.6.04.01.02	DOE	Unknown	Perry, Scott	Modifications to the Documented Safety hanlysis (DSA) Result in Potential Inadequacy in the Safety Analysis (PISA)	Per the training provided on DDE-STD-SDG-2021, any new controits that are identified as required for worker protection would be considered an inadequacy, thus, require a PISA. Any and all PISA(s) that result from the DSA modifications would impose additional impacts to the company's cost, mission, and schedule. At a minimum, work on waste movement and storage would be suspended until a JOC or ESS could be developed and approved by DDE. Once the Justification of Continued Operations (JCO) or Evaluation of Safety of Situation (ESS) were approved, additional materials or equipment would be required, and training would have to be developed and administered. As a worst-case scenario, significant changes would require a complete startup.	IEC incurs PISA(s).	Open	Threat	Transfer	Unlikely	Criticat	3-Moderate	\$ 7,700,000 \$	15,500,000	\$ 37,000,000	160	320 4		Propose Transfer to DOE-ID.	7/16/2024	
	IND001	TO3P2	Project Wide	DOE	Unknown	Roberts, Benjamine	Indirect Services: Mandatory Service Cost Increases	BEA provides multiple services to IEC, which support our work at the INL. Some of which IEC cannot seek alternative providers for. There is potential for unforeseen increase in cost for these mandatory services.	Increased Costs of Mandatory Services are applied.	Open	Threat	Transfer	Almost Certain	Critical	5-Very High	\$ 2,000,000 \$	4,000,000	\$ 6,000,000	0	0	Costs are based on fees associated with BEA FY23 Forecast.	Propose Transfer to DOE	8/14/2024	
	IND002	TO3P2	Project Wide	DOE	Unknown	Roberts, Benjamine	 Indirect Services: General Services Administration (GSA) Vehicle Surcharge Increase 	There is potential for an unforeseen increase in costs for GS/ Vehicles.	A Unforeseen cost increase is applied.	Open	Threat	Transfer	Almost Certain	Minor	3-Moderate	\$	58,752	\$ 117,504	0	0	Best Case: No cost impacts Most Likely case: \$24/month * 204 Vehicles *1 months Worst Case: \$24/month * 204 vehicles * 24 months	Propose Transfer to DOE	7/16/2024	
	IND300	TO3P2	K.1.02.08.07	DOE	Unknown	Southwick, Kimberli	i lEC is Required to Transfer or Scan A Boxes of Records	III DOE requested an impact analysis for costs to implement DOE 0 243.1C into the contract. This would require storing, digitizing, indexing and transferring records for storage at a NARA Federal Record Center or a NARA-certified commercia 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 O 243.1c is incorporated into the IEC contract.	Open	Threat	Transfer	Likely	Critical	5-Very High	\$ 4,500,000 \$	6,750,000	\$ 12,150,000	0	0	Best Case: Transferring boxes to a FRC or NAR. 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 Transfer to DOE	7/16/2024	
	NTEC210	тозр2	D.3.03.32.01 D.3.03.32.02	DOE	Renevitz, Joe	Baisch, Kasey	RC Routines: External Requirements Change	External Requirements are subject to change. Examples of external requirements are: DOE 015.1.1.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	\$ 250,000 \$	500,000	\$ 1,000,000	48	96 1	2 Cost to update programs, cost to implement the program and cost to train personnel on the changes	Propose Transfer to DOE	7/16/2024	None
	IT001	TO3P2	D.6.02.32	DOE	O'Malley, Russell	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	Possible	Serious	3-Moderate	\$ 500,000 \$	1,000,000	\$ 1,500,000	8	32 1	Best Case: 8 days (plus extended contractor fees)Most Likely: 22 days (plus extended contractor fees)Worst Case: 144 days (plus extended contractor fees)	Propose Transfer to DOE	9/12/2024	None

IT308	TO3P2	D.6.02.49	DOE	O'Malley, Russell	Anderson, Jade	Fiber Replacement Capabilities	The fiber that was put in place 20 plus years ago has	Work to replace the fiber is not turned on in time	Emerging	Threat	Transfer	Likely	Critical	5-Very High	\$ 3,000,000	\$ 5,000,000	\$ 7,0	00,000	3	10	30 We have already experienced interruptions due	Propose transfer to DOE.	9/24/2024
							deteriorated to less than 30% of what was originally there in some of the lines. If the fiber cannot be replaced prior to it breaking, there would be an extensive disruption in Internet and communication services.	to replace the fiber and the fiber breaks.													to unintentional cuts and local areas breaks in fiber. In most cases, it has been several days o interruptions to reroute traffic and repair. Thes cases have been resolved by splicling the existing fiber. In the instance that there are no more viable strands of fiber in the cable, which is an eventuality with aging fiber, new cable must be pulled and connected, extending the outage.	f	
NICDF008R2	TO3P2	D.4.06.34.05	DOE	Almahie, Amin	Reese, Craig	Delays in DOE Approvals of Critical Decisions or Other Project Related Documents	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 approval beyond scheduled approval time frame(s) will impact scheduled delivery and increase cost. In addition, if CD 2/3 is not approved before the demobilization of the subcontractor, the project may be required to solicit a new RFP.	CD Package Approval not received within the scheduled timeframe.	Realized	Threat	Transfer	Likely	Minor	2-Low	\$ 60,000	\$ 240,000	\$ 2,0	:40,000	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./da X 20 FTEs X \$75/hr. Work Case: 176 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Transfer to DOE	8/27/2024 None
NICDF016	TO3P2	D.4.06	DOE	Almahie, Amin	Reese, Craig	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.	Examples: Equipment not available when needed, Bentonite not available when needed, Geosynthetics not available when needed.	Open	Threat	Transfer	Almost Certain	Moderate	4-High	\$ 150,000	\$ 300,000	\$!	60,000	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/hr Worst Case: 32 days X 10 hrs/dy X 20 FTEs X \$75/hr	Propose Transfer to DOE	8/27/2024 None
NICDF042	TO3P2	D.4.06.37 D.4.06.3B D.4.06.3C D.4.06.3F	DOE	Almahie, Amin	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 Artivities for the Fvan. Ponds.	Congress to approve.	Realized	Threat	Transfer	Possible	Minor	2-Low	\$ 30,000	\$ 75,000	\$	00,000	2	5	20	Propose Transfer to DOE	8/22/2024 None
NICDF043	TO3P2	D.4.06.34.05	DOE	Almahie, Amin	Reese, Craig	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	\$ 75,000	\$	50,000	2	5	10 Estimates are based on SME judgement based on previous experience with IPR delays.	Propose Transfer to DOE	8/6/2024 None
NICDF300	TO3P2	D.4.06	DOE	Almahie, Amin	Reese, Craig	Increased Share of Pension	There is a risk that the pension plan will require contributions that exceed what was planned for the ICDF period of performance. This would result in an increased labor cost associated with the additional pension adder.	ICDF is directed to increase pension contributions.	Realized	Threat	Transfer	Almost Certain	Moderate	4-High	\$ 360,689	\$ 400,766	\$.	40,843	0	0	0 Best Case: 2% ICDF Direct Labor - If total labo on project decreases by 10% Most Likely Case: 2% ICDF Direct Labor Worst Case: 2% ICDF Direct Labor - If total labor on project increases by 10%	r Propose Transfer to DOE-ID.	8/6/2024 Created by Cody Hidalgo at the request of Brian Martinson on Jan. 04, 2024.
NICDF307	TO3P2	D.4.06	DOE	Almahie, Amin	Reese, Craig	Total Project Cost Exceeds \$100M	The Total Project Cost (TPC) will exceed \$100M, resulting in the requirement to become EVMS certified, as well as havin an External Independent Review (EIR), in accordance with DOE 0 413.38. The project will experience significant schedule delays and unforeseen cost increases.	TPC exceeds \$100M.	Open	Threat	Transfer	Likely	Major	4-High	\$ 500,000	\$ 2,000,000	\$ 5,1	00,000	24	96	192 Estimates are based on SME judgement, since there is no historical company data to base thi estimate on.	Propose transfer to DOE.	8/6/2024
NICDF308	TO3P2	D.4.06	DOE	Almahie, Amin	Reese, Craig	Delay in Line Item Funding Appropriations	Project funding is not available due to appropriations bill not being signed. Project will be delayed when funding is not available, resulting in increased costs.	Appropriations funding is in continuing resolution.	Open	Threat	Transfer	Likely	Major	4-High	\$ 250,000	\$ 500,000	\$ 1,	100,000	48	96	192 Estimates are based on SME judgement.	Propose Transfer to DOE.	9/12/2024 9.12.2024 - This risk should be housed in TO-3.2 and was missed during updates. Risk analyst updated Task Order.
\$1W002R2	TO3P2	D.5.01.32	DOE	Larsen, Eric	Burtenshaw, Shawn	a NRF Naval Reactors: Supply Chain Delays and Cost Increases	Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel.	Emerging national and international events impact supply chain.	Open	Threat	Transfer	Unlikely	Moderate	2-Low	\$ 150,000	\$ 300,000	\$	60,000	5	10	32 Best Case: 5 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. + \$150,000Most Likely Case: days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr = \$300,000Worst Case: 32 days X10 hrs./day X 2 crews (20 FTEs) X \$75/hr. = \$960,000	Propose Transfer to DOE 0	7/16/2024 None
\$5G300	TO3P2	D.5.01.33.05	DOE	Larsen, Eric	Burtenshaw, Shawn	a Transfer of Operational Control of S5G	SSG transfer of operational control for the 633P area and area inside 633 will not support scheduled activities.	West end not available to support removal of waste and or equipment. Adequate area not available to set up temporary wall	Open	Threat	Transfer	Unlikely	Moderate	2-Low	\$ 250,000	\$ 350,000	\$	00,000	8	12	16 Cost and Schedule impacts have been estimated based on SME expertise.	Propose Transfer to DOE-ID.	7/16/2024
\$5G301	TO3P2	D.5.01.33.04	DOE	Larsen, Eric	Burtenshaw, Shawn	a 633 Building Modification Approval	NR does not approve the proposed engineering modifications and/or equipment set-up in 633, which are necessary for large equipment removal. Additional sizing and lifting capabilities will be required to remove and load equipment.	Delay in equipment removal due to lifting capability or access requiring sizing.	Open	Threat	Transfer	Unlikely	Major	3-Moderate	\$ 1,000,000	\$ 1,250,000	\$ 2,1	00,000	16	20	32 Large Items and the Prototype will require building modification for large item removal and transport.	Propose Transfer to DOE-ID.	7/16/2024
\$5G302	TO3P2	D.5.01.33.05	DOE	Larsen, Eric	Burtenshaw, Shawn	a Unexpected Waste Properties	Waste removed from the basin in 633P has unexpected properties. These properties result in not meeting the waste acceptance criteria (WAC) for the planned disposal path. This could require additional packaging, and alternative disposal path.	Unexpected waste profile not identified by FMP discovered while removing waste from the basin.	Open	Threat	Transfer	Rare	Minor	1-Low	\$ 125,000	\$ 250,000	\$	00,000	8	16	32 Cost and Schedule impacts have been estimated based on SME expertise.	Propose Transfer to DOE-ID.	7/16/2024
SNF033	TO3P2	D.1.04.01.10	DOE	Wahnschaffe, Steve	Cotterell, Jaksen	SNF Staging Facility: DOE CD-1 Review Duration	The duration of the DOE review of CD-1 for the Staging Facility 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	\$ 180,000	\$	70,000	16	24	36 Best Case: the schedule is impacted by 1 month (16 working days) and changes need to be made prior to CD-1 approval. Additional costs for 16 days x10 hrs./day x10 FTEs x \$75/hr. Most Likely Case: 2-month review delay (32 working days) and changes to CD-1 prior tr approval. Additional costs for 24 days x10 hr./day x10 FTEs x\$75/hr. Worst Case: 4 months review delay. Additional costs for 36 days x10 hr./day x10 FTEs x\$75/hr.	Propose Transfer to DOE. Coordinate and provide status to DOE PME.	7/16/2024 None
SNF034	TO3P2	D.1.04.01.10	DOE	Wahnschaffe, Steve	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-SF. 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.	Realized	Threat	Transfer	Almost Certain	Serious	5-Very High	\$ 250,000	\$ 500,000	\$1,	000,000	41	58	75 Best Case: 1FTE 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 days/Worst Case: 1FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr. and 100,000 f subcontract design + 90 daysEach portion of design will need 10% of the subcontractor cos for IEC to manage.	Consult schedule and forecasts of DOE ICP and HQ in our IPT.	ain
SNF044	TO3P2	D.1.04.01	DOE	Wahnschaffe, Steve	Cotterell, Jaksen	SNF Staging Facility: Potential Chang to Safety Basis Regulatory Framewor	It is determined by DOE that 10CFR72 is the governing k regulatory framework.	In discussions with DOE and NRC, it is determined that the Staging Facility design must meet NRC requirements.	Open	Threat	Transfer	Rare	Critical	3-Moderate	\$ 500,000	\$ 1,000,000	\$2,	00,000	128	312	520 Revise T&FR, SOW and require the subcontractor to obtain an NRC licensed facility. Best Case: 8 months with a cost of \$500k Most Likely: 1.5 years with a cost of \$1M	Work with DOE ICP to maintain D framework for interim staging. Th applies to the casks as well as th pad. Development and acceptance of	DE 9/24/2024 None s e RPT-
SNF322	TO3P2	D.1.04.01.10	DOE	Wahnschaffe, Steve	Cotterell, Jaksen	AoA Recommendations Vary from the CDR.	The new AoA recommendations differ from the current Conceptual Design Report (CDR). For example, the AoA identifies that new or different technology is required.	Completion of the AoA requires the CDR to be revised.	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 100,000	\$ 500,000	\$ 1,1	100,000	30	60	Worst case 2.5 years with a cost of \$2.5M 120 Rework of the conceptual design and conceptual design report causing major rewor 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.	12175. If the recommendation is slightly c different, the conceptual design report can write a reason for the conceptual design report positio	7/16/2024 h.

SNF327	TO3P2	D.1.02.36.07	DOE	Wahnschaffe, Steve	Woolstenhulme, Tysor	Delay of Delivery of DOE SCs	Delay of delivery of DOE SCs will cause a delay to the project.	DOESC 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	Work w delays , Also mi lead ite impact	with BEA to identify possible s due to supply chain issues. nitigating by purchasing long terms at risk to minimize cts to schedule.	7/16/2024	
SNF328	TO3P2	D.1.02.36.11	DOE	Wahnschaffe, Steve	Woolstenhulme, Tysor	Lack of Funding Causes Delays in Procurement of Long Lead Items	Lack of funding will delay procurement and receipt of Long Lead items. This is a Corporate-wide Risk.	Congress/DOE does not provide appropriate funding.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 312,000 \$	624,000	\$ 1,248,000	96	192	284	Work w compo to allow schedu	with DOE to place RRDP critical onents as a priority for funding bw procurement of items as fuled.	7/16/2024	
SNF332	TO3P2	D.1.02.36.07	DOE	Wahnschaffe, Steve	Woolstenhulme, Tysor	BEA Leak Testing Fails	BEA Leak testing of Welds on DOESC does not pass will cause a delay 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	BEA pro correct succes seals a correct	rocurement of different seals to ct deficiencies to allow for sssful leak testing. If alternative are not successful, BEA to ct design of Bell Jar.	7/16/2024	
TO3P2001	TO3P2	Project Wide	DOE	Unknown	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 projectMost Propost Likely: 0.1 - 0.044 = 0.56\$2,366,140.03 * 0.56 = \$132,503.84Worst Case: 0.22 - 0.044 = 0.176\$2,366,140.03 * 0.176 = \$416,440.65 \$152,503.84Worst Case: 0.22 - 0.044 =	se Transfer to DOE	7/16/2024	None
TO3P2002	TO3P2	Project Wide	DOE	Unknown	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.	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 projectMost Propositive Likely Case: (\$30M / 2years) * 29% = 4,350,000 Worst Case: \$30M * 29% = 8,750,000	se Transfer to DOE	7/16/2024	None
TO3P2003	TO3P2	Project Wide	DOE	Unknown	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 projectMost Proposi Likely: 0.1 - 0.044 = 0.56\$2,366,140.03 * 0.56 = \$132,503.84Worst Case: 0.22 - 0.044 = 0.176\$2,366,140.03 * 0.176 = \$416,440.66 \$142,640.66	se Transfer to DOE	7/16/2024	None
T03P2004	TO3P2	Multiple Projects	DOE	Unknown	Perry, Scott	New Requirements From A New Revision of DOE-STD-5506 Result in Safety Basis Changes	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.	DOE Nuclear Safety mandates new 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-DS-02/RPT-TSR-03 for AMWTPSAR-4/TSR-4 for ARPSAR-103/TSR-103 for RH-TRU waste processing operations at storage and handling at INTECPLN-1851 for on-site transport of TRU waste	se Transfer to DOE	7/16/2024	None
TO3P2005b	TO3P2	Project Wide	DOE	Unknown	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 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.	Impacts from line-item project funding causes limitations that impact the execution of the base scope.	Open	Threat	Share	Almost Certain	Critical	5-Very High	\$ 1,000,000,000 \$	1,350,000,000	\$ 1,700,000,000	900	1,350	1,800	Propos	sed Share to DOE.	7/16/2024	
TRU014R2	TO3P2	D.2.03.35.04	DOE	Unknown	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' 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.	Waste cannot meet certification requirements for WIPP disposal.	Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 50,000 \$	500,000	\$ 1,000,000	16	48	96	Best Case: 16 days X 10 hr. X 5 FTE Proposi 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)	se Transfer to DOE	7/16/2024	None
TRU016R2	TO3P2	D.2.03.32.04	DOE	Unknown	Martin, David	CH-TRU Waste Disposition: Waste Isolation Pilot Plant (WIPP) Interpretations or Requirements Change	Changes to the WIPP requirements or new interpretations of existing requirements could result in a need to reprocess the waster, rework containers, or recertify waste that has already been certified in order to update the waste to the new requirements.	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	96	Best Case: 16 days Plus feesMost Likely Case: Propos 32 days plus feesWorst Case: 96 days plus fees	ise Transfer to DOE	7/16/2024	None
ASD001	TO4A	D.4.02.40	DOE	Almahie, Amin	Chapple, Jason	Work Delay due to Abnormal Weather Conditions	Weather impacts to D&D. Managing liquids in winter months results in shifting crews to different buildings to mitigate weather impacts. Abnormal weather or schedule shift may constrain seasonal appropriate timeframe to execute weather or temperature sensitive D&D activities.	Work execution is impacted by schedule shift or weather.	Emerging	Threat	Transfer	Unlikely	Moderate	2-Low	\$ - \$	499,500	\$ 777,000	0 0	9	14	Best Case: No ImpactMost Likely Case: 9 days X10 hrs/dy X 74 FTEs X \$75/hr = \$499,500Worst Case: 14 days X10 hrs/dy X 74 FTEs X \$75/hr = \$777,000	se Transfer to DOE	7/16/2024	Manage the integration of four exhumation facilities to mitigate weather as much as possible.
ASD008	TO4A	D.4.02.40	DOE	Almahie, Amin	Chapple, Jason	Surveys Uncover Unanticipated Contamination	RAD surveys during field work uncover contamination issues requiring additional remediation prior to proceeding with D&D.	An unanticipated contamination discovery from routine rad surveys.	Realized	Threat	Transfer	Unlikely	Minor	2-Low	\$ 30,000 \$	60,000	\$ 600,000	1	2	20	Best Case: 1 day X10 hrs/dy X 2 crews (20 FTEs) Implem X \$75/hr \$30,000Most Likely Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) \$57/hr safety r \$60,000Worst Case: 20 days X10 hrs/dy X 2 adequa crews (20 FTEs) X \$75/hr = \$600,000 \$57/hr	ment the following possible titions: • Re-emphasize the RAD / protocols. • Validate Jacy of soil coverage.	7/16/2024	None
ASD009	TO4A	D.4.02.42	DOE	Almahie, Amin	Chapple, Jason	Unforeseen Regulatory Changes	A regulatory change (CFRs, CERCLA, RCRA, etc.) without exemption, could result in significant implementation costs and/or schedule delays.	Unplanned change to regulatory drivers or "notice of violation" issued by regulators	Open	Threat	Transfer	Rare	Minor	1-Low			\$ 480,000	0	0	16	Best Case: No ImpactMost Likely Case: No Propose ImpactWorst Case: 16 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$480,000	se Transfer to DOE	7/16/2024	Maintain a close working relationship with DOE & Regulatory partners allowing early notification
ASD012	TO4A	D.4.02.43	DOE	Almahie, Amin	Chapple, Jason	DOE/State Delays	DOE/State delays the approval of the Well decommissioning forms/plan	Late receipt or notification from DOE or regulators of approval.	Open	Threat	Transfer	Unlikely	Minor	2-Low	\$	150,000	\$ 300,000	0	5	10	Best Case: No ImpactMost Likely Case: 5 days Proposi X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000Worst Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 \$300,000	ise Transfer to DOE	7/16/2024	Maintain a close working relationship with DOE & Regulatory partners allowing early notification & input
TO5A008	T05.1	D.5.01.51.04	DOE	Larsen, Eric	Burtenshaw, Shawna	Supply Chain Delays and Cost Increases.	Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel.	Emerging national and international events impact supply chain.	Open	Threat	Transfer	Possible	Moderate	2-Low	\$ 142,880 \$	285,760	\$ 571,520	4	8	16	Best Case: 4 days X 10 hrs/dy X 47 FTEs X Proposi \$76/hr Most Likely Case: 8 days X 10 hrs/dy X 47 FTEs X \$76/hr Worst Case: 16 days X 10 hrs/dy X 47 FTEs X \$76/hr	ise Transfer to DOE	7/16/2024	None
NRC001R2	TO6	D.1.03.60.02	DOE	Wahnschaffe, Steve	Long, Jeffery	NRC Licensed SNF Storage Facilities: NRC regulations or directions are revised or updated.	There is a potential for NRC regulations or directions to be revised or updated such that it might require us to revise programs, procedures, or implement various other measures.	Receipt of NRC direction, request for information, notice of violation or other confirmatory order	Open	Threat	Transfer	Possible	Minor	2-Low	\$ 20,000 \$	100,000	\$ 1,000,000	8	16	32	Best case based on SME experienceMost likely case based on actuals for response to RFI,Worst case based on actuals for resonse to Confirmatory Order	se Transfer to DOE	7/16/2024	None
NRC012	TO6	D.1.03.60 D.1.03.61	DOE	Wahnschaffe, Steve	Long, Jeffery	NRC Licensed SNF Storage Facilities: Supply Chain Delays and Cost Increases.	Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel.	Emerging national and international events impact supply chain.	Open	Threat	Transfer	Possible	Moderate	2-Low	\$ 10,000 \$	50,000	\$ 100,000	7	30	90	Based on SME experience. Best case assumes 1 week delay with little expense. Most likely assumes 1 month delay with moderate expense for equipment. Worst case assumes 90 day delay.	se Transfer to DOE	7/16/2024	None
IWTU051	T07	D.3.06	DOE	Neville, Trent	Nahay, Jordan	IWTU: Funding not approved for Converting IWTU Off Gas Cooling to Raw Water results in shutdown due to Potable Water Outage.	A leak in the Potable Water system requires an outage during IWTU Operation and will result in a unplanned shutdown until repaired.	Discovery of a leak in the Potable Water System.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,700,000 \$	3,400,000	\$ 5,100,000	7	14	21	If funding is not approved then the risk of forcing Proposi WTU to shutdown due to a Potable Water outage remains. 2 potable water outages per year, each lasting 3 days. Therefore, 2 shutdowns and startups of IWTU required per year which would last 1 week each for a total of 2 weeks. IWTU cost is \$1.7M per week * 2 weeks = \$3.4M.	se transfer to DOE	7/16/2024	None

1	WTU052	T07	D.3.06	DOE	Neville, Trent	Nahay, Jordan	IWTU: Forced Shutdown of IWTU	Failure during operation results in a moderate to significant	Failure during operations.	Open	Threat	Transfer	Unlikely	Major	3-Moderate	\$ 1,000,000	\$ 1,500,000 \$	2,500,000	34	51	69	No significant modifications to IWTU are being Propose transfer to DOE	7/16/2024	None
							Leads to Significant Unplanned Plant	plant modification that is unplanned and will require														forecasted, if a modification of this level is		
							Wodification	resources/materials well outside of budget														required due to a failure while operating this		
																						could require Design Engineering resources that		
																						have not been budgeted and installation		
																						resources that will be performed under		
																						radiological conditions which increase the		
																						complexity level.		
IV	VTU054b	T07	D.3.06	DOE	Neville, Trent	Nahay, Jordan	IWTU: BEA Support Services do not	IEC relies on BEA for support services on Milestones,	Insufficient quality of work product or timeliness	Open	Threat	Share	Unlikely	Moderate	2-Low	\$ 93,000	\$ 390,600 \$	1,116,000	5	21	60	Best Case: 5 days X 10 hrs/dy X 20 FTEs X Propose sharing risk with DOE.	7/16/2024	None
							Meet IWTU Scheduled Need Dates.	regulatory commitments, and scope completion. If the work	of completion of BEA deliverables impacts project													\$93/hrMost Likely Case: 21 days X 10 hrs/dy X		
								from BEA is delayed, or does not meet the requirements, it	schedule.													20 FTEs X \$93/hrWorst Case: 60 days X 10		
								can cause a project schedule impact.														hrs/dy X 20 FTEs X \$93/hr		



IEC Risk Register FY24 Annual Update

Idaho Cleanup Project Programmatic Risk Register

Updat	d to : 9.30.24																	Cost Impacts		Sch	nedule Impacts (i	n days)				
				Responsible								Handling	Risk Event													
	Risk ID T	ISK Order	WBS	Organization	Risk Owner Kimbro, Valerie	DOE POC Balsmeier, Greg	Risk Title	Risk Description	Trigger Event	Status	Risk Type Threat	Strategy	Likelihood	Risk Impact Major	Risk Rating	Best Cas	ISE	Most Likely 80.000 \$	Worst Case	Best Case	Most Likely 80	Worst Case	Basis of Impacts Best Case: 48 days X 10 br. X 1 25 FTF X	Mitigation Actions	Last update	Notes
								schedule delays.									-,	,					\$80/hr. Most Likely Case: 80 days X 10 hr. X 1.25 FTE X \$80/hr. Worst Case: 80 days X 10 h X 20 FTE X \$100/hr.			
	AL024	TO3P2	D.3.05.31.04	IEC	Kimbro, Valerie	Balsmeier, Greg	CalcineVIT: Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays.	Notification of intent to leave or retire.	Realized	Threat	Accept	Likely	Major	4-High	\$ 48	8,000 \$	80,000 \$	160,000	48	80	80	Cost and schedule impacts are based on the time it takes to backfill a position. Basis's estimated as follows: - Best Case-Backfill or position (48 days x 10 hr./day x 1 FF x \$100/hr.) - Nott Likely Case-Backfill one position (80 days x 10 hr./day x 1 FF x \$100/hr.) - Work Case-Backfill two position (80 days x 10 hr./day x 2 FF x \$100/hr.)	e s	9/10/2024	None
	AL030	TO3P2	D.3.05.31.05	IEC	Kimbro, Valerie	Balsmeier, Greg	CalcineVIT: Optimize Using BEA Business Relationships and Resources	It may be possible to optimize the cost and schedule by using the existing BEA relationship and resources under the blanket master contract or other agreement established between BEA and IEC. For example, BEA may have in-housy specialist that could participate in a review team on documents being produced under TO3.2 scope of work, such as the stilling study. Treatment study reports, and the technology maturation plan/technology readiness level documents.	Business relationship and resources are available at BEA that are not readily available to IEC.	Open	Opportunity	Accept	Likely	Minor	2-Low	\$ (432	2,000) \$	(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 hr./day x 4 FTE x \$225/hr Nost Likely Case - 24 days x 10 hr./day x 4 FTE x \$225/hr.	N/A	7/16/2024	None
	AL301	TO3P2	D.3.02.30.02	IEC	Kimbro, Valerie	Balsmeier, Greg	Calcine: Delay finalizing the Draft 3116 Basis Document due to availability of resources (external to IEC)	Finaling the Darft CSF 3136 Basis Document as scheduled in O23 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	Threat	Accept	Rare	Minor	1-Low	\$ 12	2,500 \$	25,000 \$	50,000	5	10	20	Project realized approximately 20 days of del in FY 2022 because resources external to IEC were unavailable. However, resources are non available, and this should be considered the worst-case scenario. As such, Itwas assume 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 to wn, 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 ad schedule impacts are a follows: -Best Case: 5 days X 10 hr/day X 2.5 FTE X \$100hr = \$25K - Worst Case: 20 days X 10 hr/day X 2.5 FTE X \$100hr = \$50K	y v 2	8/19/2024	
	CC007	TO3P2	D.1.21.30.16	IEC	Biorn, Scott	Thompson, Thomas	Core Car: Operational Readiness Review (ORR) is Determined to Be Required	If DOE directs IEC to perform an Operational Readiness Review in addition to a Readiness Assessment, it would cause schedule delays to perform.	DOE directs additional readiness activities prior to releasing operations.	Open	Threat	Mitigate	Unlikely	Major	3-Moderate	\$ 680	\$0,000	1,030,000 \$	2,060,000	64	96	208	Best Case: 64 days X 10 hr. X 16.5 FTEs X \$96/hr.Most Likely: 96 days X 10 hr. X 16.5 FT X \$96/hr.Worst Case: 208 days X 10 hr. X 16.5 FTEs X \$96/hr.	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	7/16/2024	None
	CC024	TO3P2	D.1.21.30.05	IEC	Biorn, Scott	Thompson, Thomas	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 does not pass test objectives or acceptance criteria in prototype test report.	Open	Threat	Accept	Rare	Critical	3-Moderate	\$ 1,658	8,040 \$	3,569,520 \$	5,385,960	96	208	314	Best Case: 96 days X 10 hr. X 16.5 FTEs X \$96/hr. (+\$137,400)Most Likely: 206 days X1 hr. X 18.5 FTEs X \$96/hr. (+52/400)Wost Case: 314 days X 10 hr. X 16.5 FTEs X \$96/hr. (\$412,200)In addition there is a need for contract extension of \$22,900/month	NA NA	7/16/2024	Saw Assembly Equipment Test Plan (PLN-6689) for Prototype 1 approved 14-Mar-23Prototype 1 testing equipment moved to Premier to continue testing. Prototype 1 testing scope increased per PLN-6689 revision. Testing will conclude January 2024.Contract release for Premier to fabricate Prototype 2 was approved. All are material procurements are complete. Material preps started 10/16/23. Ability to protect control rods from damage and ability repair/replace failed components were included in quote.
	CC026	TO3P2	D.1.21.30	IEC	Biorn, Scott	Thompson, Thomas	Core Car: Core Remnants (Including Transport Equipment) Do Not Meet the WAC for Disposal a ICDF	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	Threat	Accept	Possible	Minor	2-Low	\$ 10	0,000 \$	50,000 \$	70,000	8	16	16	Incomplete	N/A	7/16/2024	EPA has provided concurrence to add the transport package to the scope of the General Action Memorandum. Received updated rad data March 15th, 2023. Still evaluating source term and lead removal possibilities prior to disposition. Review of the rad contents proposed for disposal compared against the ICDF WAC 11/6/23. Meets ICDF Rev. 16 WAC.
	CC027	TO3P2	D.1.21.30	IEC	Biorn, Scott	Thompson, Thomas	Core Car: 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	Threat	Accept	Rare	Critical	3-Moderate	\$ 89	9,184 \$	114,824 \$	172,794	80	103	160	Incomplete	N/A	7/16/2024	Nuclear Safety meets with DOE monthly. Discussions with DOE counterpart does not expect the evaluation to result in IEC being directed to change the formatting of SAR-113 Revision 2.
	2000	TO3P2	D.1.21.30	IEC	Biorn, Scott	Thompson, Thomas	Core Car: Engineering/Safety Analysis Determine: Core Cannot be Safely Removed From RSC or Processed	Design/Safety analysis determines the core cannot be safely removed from the RSC 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	Threat	Mitigate	Possible	Critical	4-High	\$ 5,120	0,000 \$	7,000,000 \$	8,000,000	238	309	412	INCOMPLETE	Add mechanically fasten to boration to ensure the core can be safely moved from the RSC to the lay down system and safely processed.	7/16/2024	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 results and the new strategy/controls required to move the core.
	CC301	TO3P2	D.1.21.30	IEC	Biorn, Scott	Thompson, Thomas	Core Car: 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 budrogen complex	Performance of shipping shield cavity hydrogen sampling after the railcar is in place at CPP-666.	Open	Threat	Accept	Possible	Serious	3-Moderate	\$ 374	4,000 \$	534,500 \$	695,000	8	12	16	INCOMPLETE	N/A	7/16/2024	Perform drop analysis to bound shipping shield lid impacts to Railcar/shipping shield/RSC prior to the arrival of the railcar.
								Conception on the server degradation, a synthytem sample of the RSC will be required, potentially requiring a purge of the RSC to meet HAD requirements. (RSC sampling will require removal of the shipping shield lid.)																		Perform revision to CSE to incorporate mitigations required by drop analysis. Procure scaffolding and tent materials to be available to address this risk.
	C302	TO3P2	D.1.21.30	IEC	Biorn, Scott	Thompson, Thomas	Core Car: Department of Energy Does Not Accept Reciprocity From Department of Defense for the	DOE directs IEC to minimize the risk by performing the work intended to be done at Premier at an alternate	During the commissioning of the upgrade, DOE decides the risk is not acceptable.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 250	0,000 \$	500,000 \$	1,000,000	3	6	12	Cost and schedule impacts have been estimated based on SME judgement on the	Identify an alternate location to machine/fabricate/assemble components requiring	7/16/2024	
							Premier Security Upgrade	location.															duration and cost for IEC to assemble and tes components in an environment that is compliant with security regulations.	t specific protection needs. Perform a cost benefit analysis to address the upgrade of the fabrication shop or a new facility vs. moving floward with Premier		
CE	RCLA001	тозра	D.4.05.30.09	IEC	Whitmore, Erik	Brooks, Nicole	CERCLA: Evaporation Pond Liner Damage	Existing CERCLA Evaporation liner tears which would require subcontractor support to complete renaiss	Existing liner is damaged.	Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 62	\$ \$	312,658 \$	468,987	0	0	0	No schedule delays as all other work associated would continue while renairs are	Allocation for repairs for material failure of the pond	7/16/2024	None
																							done.	studion		

DST5506	014 TO)3P2 [D.6.04.01.01, D.6.04.01.02	IEC	Perry, Scott	Unknown	Competing Priorities	There is potential that higher priority scope could limit the personnel available to work on the Phased Implementation Plan for DOE-STD-S506-2021.	Higher priority scope limits available personnel.	Open	Threat	Accept	Unlikely	Minor	2-Low	\$ 2,200	\$9	9,000 \$	65,000 4	16	120	Schedule impacts reflect the estimated N/A schedule delay the project will experience as a result of converting priorities within IEC. Cost impacts reflect unforeseen costs which are a direct result of the estimated schedule delay the project will experience.	7/18/2024
DST5506	D15 TO	J3P2	D.6.04.01.02	IEC	Perry, Scott	Unknown	External Resource Competing Priorities	EC will be utilizing external resources in the effort to revise safety documents. The risk of these external resources having a delayed availability will result in schedule delays.	Higher priority scope limits availability of external resources.	Open	Threat	Mitigate	Unlikely	Minor	2-Low	\$ 15,500	\$ 61	\$	462,000 4	16	120	Schedule impacts reflect the estimated schedule delay the project will experience as a result of competing priorities within the external entities being utilized for this project. Cost impacts reflect unforeseen costs which are a direct result of the estimated schedule delay the project will experience, using the external resource rates.	7/16/2024
DST5506	016 TO)3P2 [D.6.04.01.01, D.6.04.01.02	IEC	Perry, Scott	Unknown	Personnel Attrition	Personnel attrition of experienced individuals will require reassigning and training personnel to be fully cognizant of the scope, resulting in costs and schedule delays.	Attrition realized.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 2,200	\$9	9,000 \$	65,000 4	16	120	Schedule impacts reflect the estimated amount NA of time required to reassign and train personnel for this scope (revising HADs and EDFs), in the event that the project boses 1 FTE. Cost impacts reflect unforeseen costs which are a direct result of the estimated schedule delay the project will experience.	7/16/2024
ICDFO	1 то)3P2 I	D.4.05.31.03	IEC	Orme, Jason	Brooks, Nicole	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, excavors, fron end loaders, diesel fuel trailer, water trucks, hook trucks, telehandlers, pumps, liness, Digital Control System Equipment, and Waste processor.	Failure of any equipment (i.e. road graders, excavtors, front end loaders, diesel fuel trailer, twater trucks, hook trucks, telehandlers, pumps, liners, Digital Control System Equipment, and Waste processor) necessary to perform operations.	Realized	Threat	Accept	Likely	Serious	4-High	\$ 175,600	\$ 341	L,000 \$	511,000 30	60	90	Equipment Costs per DCES sheet / Lesse Rates for Equipment Total \$91,454 - 20% equipment Potential Faulters - Daily Rates 20% Higher than Monthly Rates / ICDF Contamination Zone Risk of Lesset Equipment - Lesse to Buy / Work Case would be the D9N Dozer Lesse \$33,000	7/16/2024
ICDF0	2 то	03P2	D.4.05.31.03	IEC	Orme, Jason	Brooks, Nicole	ICDF Ops and Maintenance: Treatment, Storage, and Disposal Facility (TSDF) Closure	ICDF is unable to receive waste, transportation of that waste will be delayed. It may then become necessary for the project to incorporate actions to recover schedule.	ICDF discontinues receiving of waste.	Open	Threat	Mitigate	Likely	Minor	2-Low	\$ 175,600	\$ 118	3,800 \$	158,400 8	12	16	Best Case: 8 days x 10 hr./day x 6 FTEs X (\$110/hr - 0T = \$165/hr./Most Lkaky Case: 12 Upon ICD F resuming operations, shipment(s) will days x 10 hr./day x 6 FTEs (\$10/hr. + 0T = \$165/hr./Worst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr.+ 0T = \$165/hr.)	7/16/2024
ICDF0	з то	03P2 03P2	K.1.03.08	IEC	Orme, Jason Henry, Jennifer	Brooks, Nicole	ICDF Ops and Maintenance: Waste Container Treatment, Storage and Disposal Facility (TSDF) Certification Failure Training: Training Platform Transition Fails	During the verification process, if a waste container(s) is found to not be in accordance with the ICDF WAC, the waste will need to be reworked. BEA has made the decision to terminate the TRAIN	A container(s) is identified as damaged, packaged incorrectly, containing uncertified waste, containing prohibited items, etc.	Open	Threat	Accept	Likely Possible	Minor Major	2-Low 4-High	\$ 175,600 \$ -	\$ 81	0,000 \$ 11,	456,000 0	6	0	Best Case: 8 days X1 bhr /days X6 FTEs X Implement the following possible mitigations: - (\$75/hr, + OT = \$112.50/hr, /bdys X6 FTEs X (\$75/hr, + OT = certify waste. Overtime will be worked to recover \$112.50/hr, /bdys X6 FTEs X (\$75/hr, + OT = certify waste. Overtime will be worked to recover \$FTEs x (\$75/hr, + OT = \$112.50/hr.) schedule. Best case: All responsibility goes solely to BEA. N/A	7/16/2024
								(Training Records and Information Network) system, which is a service IEC utilizes. The training platform which BEA has chosen to transition to is a Learning Management System (LMS). IEC will experience an increase in cost, due to the fact that we must maintain the TRAIN system while implementing LMS. The risk is that funding will not be available to support two training platforms during this transition. This would include not having enough personnel to support based on the needs of the LMS.	funding the Training Platform Transition, including requested Full Time Employees (FTE), is denied.													Most Likely: Cost of our personnel having to support this even inplementation. Worst Case: Cost of our personnel with a 30% markup for having to subcontract this process out.	
	5 то	03P2	K.103.08	IEC	Henry, Jennifer	Unknown	Training: Inefficient Personnel Growth	EC employs various disciplines. There is potential of not being able to adequately fund courses geared towards personnel development and growth in individual career fields. If EC is unable to adequately fund these programs for personnel, there is potential of losing personnel seeking more professional growth. There is also the risk of having a less efficient work force.	Funding is not adequate to support sending personnel to train and attend developmental courses geared towards their career field.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 100,000	\$ 600	0,000 \$ 3,	.000,000 0	0	0	Best Case: Lose 1 person N/A Most Likely: Lose 12 people Worst Case: Lose 30 people at approximately \$100k/person	7/16/2024
INDU	, 10	392	Project Wide	IEC.	Cooper, brandy	waiker, schyler	Global: Approval of Business Systems	Ic. has multiple systems utilized that needs to be approved by DOE. In some cases, approval may not be granted, resulting in corrective actions that could be costly. Additionally, there will be reviewed/audits done that could require additional steps or potential re-work of associated procedures. This could lead to purchasing different systems, acquiring subcontractors to help complete re-work, and potentially going through additional reviews and audits.	Any dutized ousness system does not meet required standards and gain approval.	Upen	inreat	Accept	Possible	Minor	2-LOW	\$ 80,000	\$ 100	,000 S	120,000 0	U	0	impact based on expected software or subcontract costs related to corrective actions.	9/24/2024
INDRPC	ы то	J3P2	K.1.03.03.08	IEC	Henry, Jennifer	Unknown	Radiation Protection: Spare Rad Instrument Disposal	IEC has several cargo containers at the projects that are filled with old radiological instruments. The instruments are currently being kept for use as spare parts to keep instruments running until older units can be replaced. Once old instruments are replaced, the spare instruments must undergo a proper disposal process. Once the stored instruments can no longer be used for spare parts, they become waste and require a hazardous disposal path due to lead and other metals used. If the project is directed to dispose of the spare instruments under strict disposal immelines, 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.	Spares are determined to be disposed under a strict timeline.	Open	Threat	Accept	Almost Certain	Critical	S-Very High	\$ 1,500,000	\$ 3,000	,000 \$ 5,	.000,000 0	0	0	Best Case: they only require a dispose of current inventory of sparses but likely: require disposal of current sparses and spares that come from current projects such as APP. Works Case: require disposal of current sparse and sparse that come from current projects such as ARP. Additionally there would be demo on some buildings as there would be removal in some locations.	7/18/2024 None
			03.03.32.02	ILC.	Basch, Kasey	Kenevitz, Joe	IN IEC BUP: Iransformer Faiure Causes Unscheduled Electrical Outage	A transformer failure can cause an unscheduled power outage with long repair times. Transformers can require long production could halt within the affected facility due to a lack of electrical power.	Electrical equipment (transformer) failure due to prolonged exposure to harsh outdoor weather conditions without testing or maintenance.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 250,000	\$ 545	,600 \$ 2,	.578,000 48	. 96	160	Best Case: transformer fails on double end fed piece of equipments to cost to replace is the materials only of 250k. Most Likely - transformer failure which causes partial building outage (CPF-R59) for duration of the time it takes to get a new transformer. MATL COST 200k LABOR COST: 96 days X 12 hr./day X 3FFE X \$100/hr. Worst Case: Transformer failure includes need to replace fedder breakers also and results in loss of 1/2 of CPF- 666 for duration of the time to install. MATL COST: TSOK, LABOR COST: 160 days X 12 hr./day X 9FTE X \$100/hr. DISPLACED WORKER COST: 100 k	7/16/2024 None
INTECO	K2 TO	13P2	0.3.03.38.09	IEC	Klukis, Venita	Renevitz, Joe	INTEC Distributed Control System Upgrades: DCS electronics failure.	The UCS electronic systems need to be updated to more readily available products in the event of a system failure. Parts for the currently operated system are not readily available as it is an outdated system.	Outsated DCS equipment fails upon use.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 250,000	\$ 300	0,000 \$	200,000 90	15	270	In house design delay can be an issue, it will Work with engineering to prioritize high risk engineering company just to be awarded, plus designing period, that would cost three to six months delay on the job. Pusce art cost to the outside company to complete the design. The supply chain could also cause is supply chain could also cause is supply chain could also cause is supply chain so that or 16 Days X1 hour X2 FTEs X \$100=\$53,0002 X 10 × X 1500=\$64,00048 X 100=\$23,0003 X 10 × X 15100=\$64,00048 X 100=\$62,0003 X 10 × X 15100=\$64,00048 X 100=\$60,0003 X 10 × X 15100=\$64,00048 X 100=\$60,0003 X 10 × X 15100=\$64,00048 X 100=\$60,0003 X 10 × X 15100=\$65,0000 X 100=\$60,0000 X 100=\$60,00000 X 100=\$60,0000 X 100=\$60,0000 X 100=\$60,0000 X 100=\$60,0000 X 1	7/16/2024 None
INTECOS	70 TO	1512	u.s.us.39.02	IEC	Kelly, Patrick	Renevitz, Joe	Emergency Communication System Alt #1: ECS wireless system failure.	EXAMPLES WITHERS SYSTEM Tailure causes the work to be stopped-and impacts the accomplishment of the fire panel conversion process.	conversion work progress and testing.	Upen	inreat	Ассерт	Unitkety	Serious	2-LOW	⇒ 30,000	> 180	5,000 \$	270,000 30	60	90	ress - sou x 10 m/x x 1112 x 100/m = 30,000 LK - H 40e an ELS fectivery plan in place to repair the 60d x10h/d x3fte x100/hr = 180,000 Wo - 90d x10h/d x3fte x100/hr = 270,000	//10/2024 INUNE

INTEC060B	TO3P2	D.3.03.39.02	IEC	Kelly, Patrick	Renevitz, Ioe	Emergency Communication System Alt #1: BEA	Required BEA reprograming at the Central Fire Station for	BEA does not reprogram and work to test system	Onen	Threat	Accent	Unlikely	Moderate	2-1 ow \$	14.000	\$ 90.000	\$ 120.000	14	30	50 Rest 14/d x 10 h/d x 1fte x 100/br = 14 000 L/k _ Have early communications with REA and have 7/16/2024 None
				,,		reprograming was not completed in a timely manner.	each ECS panel conversion is not completed in a timely manner.	is suspended.	open	muur	hoopt	onakciy	Houerate	2 200 0	, 14,000	• 00,000	• 110,000	14		30d x10h/x 3tfe x 100/hr = 90,000 How 60d x 10h/d x 2tfe x 100/hr = 120,000 conditionation between IEC and BEA for needed
INTEC068R2	TO3P2	D.3.03.3C.02	IEC	Klukis, Venita	Renevitz, Joe	INTEC Crane Upgrade: PaR Re-certification Scope	Full work scope to re-certify existing PaR arm is unknown	Vendor inspection and testing upon receipt of PaR	Open	Threat	Mitigate	Possible	Serious	3-Moderate \$	\$ 100,000	\$ 250,000	\$ 400,000	16	48	96 Used maintenance costs and lead time on parts Inspect PaR arm prior to shipment to better 7/16/2024 None
						Definition	and could exceed estimated cost and schedule once vendo evaluation is complete.	r arm.												for the Most Likely case and then adjusted 25% determine risk level both ways to arrive at the Worst Case and Best
																				Case values.
INTEC211	TO3P2	D.3.03.32.01D.3 .03.32.02	IEC	Baisch, Kasey	Renevitz, Joe	BOP PM: Failure to Follow Process Steps and/or Expectations Results of Major Noncompliance	In the event that the project experiences a major noncompliance issue, it could result in additional resource	A Major Noncompliance event occurs.	Open	Threat	Accept	Likely	Major	4-High \$	250,000	\$ 500,000	\$ 1,000,000	48	96	192 Cost of subcontract mentors, cost to refurbish IN/A 7/16/2024 None program, cost for retraining.
						Issue	required, changes to work control, additional training required, etc.													
INTEC212	TO3P2	D.3.03.30.04	IEC	Baisch, Kasey	Renevitz, Joe	BOP CM: Critical Legacy Equipment Failure	INTEC utilizes many pieces of legacy equipment, such as: cranes, overhead doors, transformers, etc. Legacy	Equipment fails.	Open	Threat	Accept	Almost Certain	Critical	5-Very High \$	500,000	\$ 1,000,000	\$ 2,000,000	96	192	288 616 compressor replacement actuals, potable N/A 7/16/2024 None water wiring actuals, 1647 piping actuals,
							equipment has the potential of failing due to the nature of its age. Unforeseen equipment failure can cause													cathodic protection replacement actuals.
							unscheduled outages to repair and turn the equipment back over to operations.													
INTEC302	TO3P2	D.3.03.39.02	IEC	Kelly, Patrick	Renevitz, Joe	Design from Subcontractor Inadequacies	Initial Design from subcontractor does not conform with field conditions requiring additional work on drawings to	Drawing inadequacies discovered during work control development.	Realized	Threat	Accept	Almost Certain	Critical	5-Very High \$	175,000	\$ 230,000	\$ 350,000	96	128	208 Project Manager will work ahead of the work control 9/9/2024 to try to remain on top of the issue.
INTEC306	TO3P2	D.3.03.36.02	IEC	Klukis, Venita	Renevitz, Joe	IWTU Vulnerabilities: Waste Boxes Requires	be able to move forward with the work. Waste boxes do not meet specifications for disposal	Waste container does not meet shipping	Open	Threat	Mitigate	Likely	Minor	2-Low \$	\$ 70,000	\$ 140,000	\$ 280,000	8	8	8 Vulnerabilities previously paid a company Crews have been informed of shipping requirements 9/9/2024 Some waste containers may be sealed and have void spaces
						Additional Processing Before Disposal	requiring them to be processed at an offsite facility or to be shipped to a different location, creating higher disposal	requirements.												about \$60,000 per box for disposal. To account and to do what they can to meet those inside them already when they are placed in the waste box for inflation the costs will be set at \$70,000 per specifications. making it almost impossible to meet the requirements.
							fees.													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.
INTEC307	TO3P2	D.3.03.38.09	IEC	Klukis, Venita	Renevitz, Joe	DCS Upgrades: Hardware procurement issues	Hardware could have long lead times causing schedule	Procurement of hardware.	Open	Threat	Accept	Possible	Major	4-High \$	\$ 1,000	\$ 2,000	\$ 3,000	48	96	182 3, 6, and 12 months delay with minimal cost 9/9/2024
							impacts for implementation. Hardware could also be unavailable or very difficult to locate causing budget and													Impacts since project would shut down until materials arrived.
INTEC308	TO3P2	D.3.03.38.09	IEC	Klukis, Venita	Renevitz, Joe	DCS Upgrades: Engineering resources become	schedule impacts. With limited personnel the DCS engineering group could	DCS engineer leaves the department or is placed	Open	Threat	Accept	Possible	Maior	4-High \$	1.000	\$ 2.000	\$ 2.000	24	96	96 Best case: 6 weeks for the trolical amount of 9/9/2024
			-		,	limited during project execution	experience a reduction in personnel due to attrition or health issues. This would create longer lead times to	on STD/LTD.							_,	-,				time someone is on STD. Cost impacts are minimal since the project will be on hold until
							complete items.													personnel return. Most like/c for someone who needs
																				the full time on STD. Cost impacts are minimal since the received and the second
																				Return.
																				replacement. Cost impacts are minimal since the prefet the op held with encound have
INTEC200	10282	D 2 02 28 09	IEC	Klukic Venita	Repovitz Ioo	DCS Lingrador: Current system design has	The current system deer not have drawings or	Unknown condition encountered at any time	Open	Threat	Accent	Possible	Minor	2.100	5.000	\$ 10.000	\$ 20.000		16	been trained. 22 Best-sace two wake to investigate issue and 000/0024
INTECSOS	10372	0.3.03.38.03	iLC	Kitkis, venita	Kenevitz, Joe	unknown aspects	documentation which could cause the project to encounte unknown aspects or conditions during investigation.	r during project.	Open	mear	Accept	10331016	Pintor	2-2011 3	5,000	a 10,000	20,000	Ů	10	purchase additional software or hardware to additione
							installation, and testing.													Most Likely: 1 month Wost case: 2 monthe
INTEC310	TO3P2	D 3 03 38 09	IEC	Klukis Venita	Renevitz Ioe	DCS Ungrades: Testing after installation is not	After the installation of the software and hardware, during	Testing of system does not end in viable	Open	Threat	Accent	Unlikely	Minor	2.10%	1 000	\$ 50.000	\$ 200.000		16	192 Bact Creat Decilia huse that pand to ba
intresid	103/2	5.5.65.50.05	120	Ridkis, Ferrita	neneviti, soc	successful	testing, it is discovered the system is not operational as intended	equipment.	Open	mear	Accept	Unakety		2-2011 3	1,000	a 30,000	300,000	Ů	10	addressed causing the schedule to move 2 weakers and minimal certa incrured
							included.													Weeks and minima costs incluted. Most Likely: Engineering requires 1 month to address leaves along with expression and the angle
																				equipment.
INTEGRA	70303	D 2 02 28 00	150	Khukis Manita	Denovita Joo	DCC Lingendees incompatibilities with other field	During installation of the new offware and herdware it is	Field an import date not function often	0000	Threat	Accont	Ressible	Sarious	2 Moderate	E 000	¢ 50.000	¢ 175.000	16	49	Causing an entire redesign.
INTECSTI	103P2	0.3.03.38.09	iec	Kiukis, veriita	Renevitz, Joe	devices	discovered that the current field equipment (IO, VFDs, etc. are not compatible and do not function properly) installation of new hardware and software.	Open	mear	Accept	Possible	Senous	3-Moderate 3	5 3,000	\$ 50,000	\$ 175,000	10	40	Bes class: engineering requires a monitor to Brazzaza purchase software or hardware to create a biological and the software to
							are not compatible and do not renetion property.													Most Likely, three months with software and
																				naroware purchases Worst case: New VFDs, IO, etc will need to be
																				purchased that is compatible with system requiring 6 months and extensive costs.
INTEC312	TO3P2	D.3.03.38.09	IEC	Klukis, Venita	Renevitz, Joe	DCS Upgrades: Software development could	Software development for an aged system could prove to	Software development does not finish within	Open	Threat	Accept	Likely	Minor	2-Low \$	\$ 8,000	\$ 16,000	\$ 32,000	8	16	32 Design engineering labor hours will be the only 9/9/2024
						require more one man and pateu	additional man hours and schedule changes that will delay the project	scheddied period.												Impacts outlier unit is assumed to be sloup per hour. Schedule impacts are estimates only and
INTEC313	TO3P2	D.3.03.3C.02	IEC	Klukis, Venita	Renevitz, Joe	CPP-603 PaR Refurbishment: Lost or damaged	Lost or damaged equipment during shipping.	Shipping boxes.	Open	Threat	Accept	Rare	Critical	3-Moderate \$	\$ 330,000	\$ 660,000	\$ 1,000,000	366	366	366 "Worst case is based off of replacing the entire seasmbly of the PaP. Most likely and hest case
						-1-F														are broken down by 1/3 of ML. Long lead times from PaR
																				*Note these lead times may extend out past the Task Order time constraints "
INTEC214	10282	D 2 02 26 02	IEC	Klukic Venita	Repovitz Ioo	IWTU Mulaerabilities: Damage to the Crane	Due to the vital pature of the grane to this project scope	Damaga to crana	Peolized	Threat	Accent	Almost Cartain	Major	5 Very High	50.000	\$ 100.000	\$ 250.000	49	96	266 Drewlour domas to erana took anonylimatalu? 00/00024
INTECS14	10372	0.3.03.30.02	iLC	Kitkis, venita	Kenevitz, Joe	Impacts schedule	any unforseen damage to the crane could significantly impact cost schedule.	Damage to traile	neauzeu	meat	Accept	Autoscoertain	major	3-Very High	50,000	a 100,000	230,000	40	30	years to get back into operation. Costs are been approximately 2
																				the work being pushed.
																				Task Order time constraints.
INTECOTE	T()202	D 3 03 38 04	IFC	Kelly Patrick	Renavity Ioo	Insufficient signal strength	Insufficient signal strength may require release external	Signal strength test comes back lower than	Realized	Threat	Accent	likalu	Serious	4.High	100.000	\$ 100.000	\$ 150.000	40	4.9	96 cost of DCS niu/minus 25%. 0/02/2004
ATC:S15	10372	5.5.55.30.04		neny, r du ick	nenevitz, ide		antennas.	adequate.	nead280	medt	Accept	LINGLY	Jendus	4-ringht 3	, 100,000	÷ 129,000	130,000	40		90 900 0 000 partititititi 2010 (979/2024
INTEC317	TO3P2	D.3.03.36.02	IEC	Klukis, Venita	Renevitz, Joe	IWTU Vulnerabilities: Filter door maintenance cannot be performed	The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues forcing	The filter bank maintenance cannot be performed because of accessibility. AI ARA or other	Emerging	Threat	Accept	Rare	Serious	2-Low \$	\$ 15,000	\$ 30,000	\$ 45,000	32	64	96 Best case: design, build, and install of 12 door closure \$15% as best estimate of the cost of
							engineering to redesign the door closure system for faster, simpler future maintenance	equipment issues												materials Materials
																				closures and 6 new doors \$30K
INTEGAO	T0383	D 2 04 31 06	IEC	Klubic Vanita	Thompson There	Dahailar Daalacamant: Matavial daliwas: *-	Matarial needed to fabricate the scholles is deleged	Matarial daliyany aytande nast aureant land there of	0000	Threat	Accont	Possible	Sarious	2 Moderate	1.000	\$ 200.000	\$ 1500.000	10	40	closures and 12 new doors \$45K
INTEC318	103P2	0.5.04.31.06	IEC.	Nukis, vehitä	mornpson, Thomas	subcontractor delays delivery of reboiler	causing the delivery of the reboiler to INTEC to be delayed	6 months	Open	inreat	Accept	FUSSIDIÊ	Serious	o-moderate \$, 1,000		¢ 1,500,000	10	48	or non-mig to une venuou the unstatas be defined to a service of the service of t
																				deveree. In swoud have minima impact, the most likely would be a three month delay which
																				would put the project at severe risk or not meeting the delivery deadline costing more in
																				A four month delay would cause the project
																				date.
IT004	TO3P2	D.6.02.38.01	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Subcontractor	Subcontractor availability (wheeler electric, Leverage)	Preferred subcontractor is unavailable.	Open	Threat	Mitigate	Rare	Serious	2-Low \$	\$ 216,000	\$ 576,000	\$ 1,296,000	24	64	144 Best Case: 24 days x 10 hr./day x 4 FTEs x Develop a request for back-up subcontractor. 7/16/2024 None
						Avaliadility	preference and availability.													szz5/hr,= \$216,000 Most Likey, 64 days x 10 hr./day x 4 FTEs x
																				szcomt.= \$5/6,000 Worst Case: 144 days x 10 hr./dayx 4 FTEs x
11005	TO3P2	D.6.02.34,	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Unforeseen Structural	Unforeseen structural issues would require involving our	A sizeable structural concern is discovered.	Open	Threat	Accept	Unlikely	Critical	3-Moderate \$	\$ 320,000	\$ 960,000	\$ 1,920,000	40	120	szzzöhr.= \$1,296,000 M/A 7/16/2024 None 240 Best Case: 40 days x10 hrs/day x 4 FTEs x N/A 7/16/2024 None
		D.6.03.33				issues During Operations	timeline. The expectation is minimal structural issues, a													Szurumi = 5320,000 Most Lieky, 120 days x 10 hrs/dayx 4 FTEs x
							engineering contractors, structural contractors,													szuuhr = \$960,000 Worst Case: 240 days x 10 hrs/day x 4 FTEs x
		-		and 1	0111	Information Test of the T	Calculation for the formation of the for	Phanene films in the				16.02						<u> </u>		
1T010	TO3P2	D.6.02.36.01 D.6.02.36.04	IEC	Anderson, Jade	O'Malley, Russell	Information Lechnology: Software Upgrades	Scrieduling testing for software upgrades (ARB risk assessments for Cyber and IT) - Derogatory information	uiscovery of derogatory information.	Open	Ihreat	Mitigate	Unlikely	Minor	2-Low \$	\$ 18,000	ə 72,000	\$ 288,000	4	16	b4 pess Case: 4 0ays x1u m/day X2 F1Es x reform preliminary assessment to locate any 7/16/2024 None \$225hr = \$18,000 Most vulnerabilities and adjust coding as necessary. 7/16/2024 None
		D.6.02.36.05					vulnerabilities discovered render software or hardware													Likeg: 10 days X 10 m/ day X 2 FES X 2420m.= \$72,000 Worst Case: 64 dww.rd 0. Likeg: 0 FES. 4000 000
		0.0.02.30.07					Rear with for use at ter.											1		aays x 1u nr./aay x 2 FTEs x \$225/hr.= \$288,000

IT012	TO3P2	D.6.03.32.01	IEC	Anderson, Jade	O'Malley, Russell	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	Accept	Possible	Serious	3-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 Vorst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.= \$1,296,000	N/A 7/16/202	I None	
IT013	TO3P2	D.6.02.38 D.6.02.39 D.6.02.41 D.6.03.32 D.6.03.33 D.6.02.34 D.6.02.35.01	IEC	Anderson, Jade	O'Malley, Russell	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	Accept	Possible	Critical	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 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	N/A 7/16/202	I None	
IT014	TO3P2	D.6.02.40	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Utilization of Fiber Duri Upgrades	ng 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	Accept	Possible	Minor	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 - \$106,240/host Likely: 120 days x 10 hrs/day x 2 FTEs x \$200/hr = \$480,000 plus material costs of \$212,480 240 days x 10 hrs/day x 2 FTEs x \$200/hr = \$ \$960,000 plus material costs of \$318,720	N/A 7/16/202	The project is c workable fiber a	urrently doing an analysis and has found there is available.
1T306	TO3P2	D.6.02.35	IEC	Anderson, Jade	O'Malley, Russell	Additional Equipment needed for Network Refresh.	Due to the unforseen issues with the planned subcontractor for this work scope, the contract has been cancelled. This may require internal resources to perform the work as well as purchase of additional equipment, increasing unplanned costs.	The final design has completed, and it determines there is a delta between equipment in stock and equipment needed.	Realized	Threat	Mitigate	Almost Certain	Major	5-Very High	\$ 800,000	\$ 1,400,000	\$ 3,000,000	48	96	124	This equipment will be needed to complete the Network Refresh project. Otherwise, the project will be put on hold until equipment can be purchased.	Once the final design has completed and a detta 7/16/202 between equipment in stock and equipment needed is completed, we will need additional money to complete equipment purchases.	Toward the end presented us w this project wor The IEC IT staff ~\$1.4M. Update: IEC bel significantly.	I of TO3P1, the subcontractor for this project th a BOM for additional equipment to complete rth ~\$3M. This cost was not planned in TO3P2. estimates this equipment cost to actually be lieves we can lower the impacts of this risk
11307	TO3P2	K.1.02.04 - IND - Information Technology (9.1) - (LOE)	IEC	Anderson, Jade	Unknown	New VMWare pricing structure not budgeted in FY25.	VWWare 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.	Expiration of the current VMWare license.	Emerging	Threat	Mitigate	Almost Certain	Moderate	4-High	\$ 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. 7/16/202 Exploring other VM products.		
11309	TO3P2	D.6.02	IEC	Anderson, Jade	O'Malley, Russell	End of Life Software	The ICS at AMWTP runs on end-of-life software called FactoryLink that is no longer available. The company that it was purchased from no longer exists and the company that purchased it fors a completely different system now. If the software reaches a point where it can no longer be "fixed" then IEC will need to purchase a new system.	A software defect is found that halts operations, which the 3rd party support company is unable to resolve.	Emerging	Threat	Mitigate	Rare	Critical	3-Moderate	\$ 1,000,000	\$ 2,000,000	\$ 3,000,000	120	360	720	The last estimate for the cost of the software was \$450K plus the installation and customization costs. Replacing then customizing will be time consuming and labor intensive.	IEC pays for a support contract from 3 at d party If the software can be fixed. This contract is a limited support contract that only covers software defects and licensing.	1	
IT310	TO3P2	D.2.05.30.20	IEC	Anderson, Jade	Unknown	Waste Tracking System Failure	The Waste Tracking System (WTS) is an Oracle forms Gi application. Oracle forms Gi considered an end-of-life system and is no longer compatible with current databases. This means it cannot be patched for cybersecurity purposes. This leaves the forms and database at risk of attack as they are stagnant with no alternative to move forward.	The WTS application is attacked through the vulnerabilities associated with the EOL software.	Emerging	Threat	Accept	Rare	Critical	3-Moderate	\$ 1,500,000	\$ 2,100,000	\$ 3,000,000	96	208	416	Waste Tracking System (WTS) is a legacy application that has been in need of an upgrade for many years. Forms 6I has been end-of-Ife since 2008 but has been compatible with the Oracle databaseu puntil Oracle LC, which became end-of-Ife in 2022. Upgrading the patched for vunerabilities will cost a large amount of money and take a considerable amount of time.	The WTS application is protected through many 9/24/202 network mitigations.	1	
LEG0003	12 TO3P2	K.1.01.05	IEC	Trotta, Eric	Unknown	Legal: General Labot and Arbitrations	The possibility of diverging resources or obtaining outside coursel to assist with unforeseen arbitrations involving General Employment and Labor Relations matters (i.e., pensions, employee health, and welfare plans).	A grievance is filed requesting for arbitration.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 25,000	\$ 50,000	\$ 75,000	0	0	0	Each arbitration is estimated to cost approximately \$25K. The most likely occurrence to happen under the IEC contract is roughly two.	7/16/202		
LEG001	2 TO3P2	K.1.01.05	IEC	Trotta, Eric	Unknown	Legal: Miscellaneous Litigation	Potential for an unanticipated lawsuit which, would require resources to be allocated for the initial answer and planning of the lawsuit.	New Lawsuit is filed against IEC.	Open	Threat	Accept	Unlikely	Minor	2-Low	\$ 25,000	\$ 50,000	\$ 75,000	0	0	0	No Schedule Delay. Costs represent initial responses.	7/16/202	1	
LEG002	2 TO3P2	K.1.01.05	IEC	Trotta, Eric	Unknown	Legal: General Litigation	Any arising lawsuit against IEC regarding Government contracts, environmental matters, and employment law that would require appropriate resources for litigation.	New Lawsuit is filed against IEC.	Open	Threat	Accept	Rare	Minor	1-Low	\$ 25,000	\$ 50,000	\$ 75,000	0	0	0	No Schedule Delay. Costs represent initial responses.	7/16/202	1	
NICDF3	3 TO3P2	D.4.06.37	IEC	Reese, Craig	Almahie, Amin	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	Threat	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. Worst Case: 20 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A 9/9/2024		
NICDF3	9 TO3P2	D.4.06	IEC	Reese, Craig	Almahie, Amin	Frequently Changing Needs	Due to frequent alterations of approach, the project may identify unforeseen activities needed to perform that had not originally been planned in the schedule. The project wil experience an increase in cost for material and labor, as well as an increase in project duration.	The project identifies needed activities, not already planned.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 100,000	\$ 200,000	\$ 500,000	16	32	96	Estimates are based on SME judgement.	N/A 9/9/2024		
NRFDD00	R2 TO3P2	D.5.01.32 D.5.01.30.20 D.5.01.30.21	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Loss of Contamination Control	Loss of contamination control (outside D&D boundaries) during demolition may result in personnel contamination and/or extended shutdown for recovery.	An unanticipated event driven by discovery of contamination outside of the boundary, possibly portable air monitor.	Open	Threat	Accept	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 7/16/202	I None	
NRFDDO	9 TO3P2	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: NRF West Gate Access	The West entrance for NRF using gate 4 has Limited ingress/egress for the heavy equipment and waste shipments due to high voltage power conductors overhead.	The heavy Equipment and waste loads ingressing or egressing from NRF through gate 4 will have a load limit no greater than 13' in height that will require an alternate route or complicated high voltage power outage.	Open	Threat	Accept	Likely	Minor	2-Low	\$ 21,000	\$ 42,000	\$ 84,000	4	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/hrWorst Case: 16 days X10 hrs/dy X 7 FTEs X \$75/hr	N/A 7/16/202	I None	
NRFDDO	0 TO3P2	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	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	Threat	Accept	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 7/16/202	I None	
NRFDDO	1 TO3P2	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 37,500	\$ 225,000	\$ 337,500	5	30	30	Best Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = \$37,500Most Likely Case: 30 days X10 hrs/dy X 10 FTEs X \$75/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X \$75/hr = \$337,500	N/A 7/16/202	I None	
NRFDDO	2 TO3P2	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Industrial Incidents Resultin In Shutdowns	g An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	An unanticipated accident resulting in injury or near miss.	Open	Threat	Accept	Rare	Critical	3-Moderate	\$ 750,000	\$ 1,500,000	\$ 3,000,000	100	180	204	Best Case: 100 days x 10 hrs/day x 8 people x \$93/hr. = \$750,000 Most Likely: 180 days x 10 hrs/day x 8 people x \$93/hr. = \$1,500,000 Wors Case: 204 days x 10 hrs/day x 8 people x \$93/hr. = \$1,500,000 Wors Sase: 204 days x 10 hrs/day x 8 people x \$93/hr. = \$1,500,000 Wors	N/A 7/16/202	I None	
NRFDDO	3 T03P2	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Subcontract Management	Not securing a subcontractor that can do the work in the time allotted for the project can cause schedule delays.	Subcontractor is not readily accessible to perform work.	Open	Threat	Mitigate	Rare	Moderate	1-Low	\$ 37,500	\$ 225,000	\$ 337,500	5	30	30	Best Case: 5 days X10 hrs/dy X 10 FTEs X \$75/hr = \$37,500Most Likely Case: 30 days X10 hrs/dy X 10 FTEs X \$75/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X \$75/hr = \$337,500	Secure Backup Crane Subcontractor for large 7/16/202 component removal.	I None	
RHTRU00	R2 T03P2	D.2.04.30.14	IEC	Troescher, Patrick	Larsen, Daphne	RH-TRU Waste Disposition: Achieving FY24/25 Processing Lot 11 Containers Due to Critical Failure of Equipment	Achievement of the FY24 of processing 10 Lot 11 containers and the FY25 of processing 20 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.	¹ Critical failure of facility support equipment and lack of funding specific to: 1. Procure manipulators 2. Design, procure, and modify FDPA in-cell crane from analog to digital."	Open	Threat	Accept	Unlikely	Moderate	2-Low	\$ 200,000	\$ 300,000	\$ 600,000	16	32	64	"Costs are based on fees associated with missed delivery dates. Best Case: 16 days down time X 20 FTEs X \$41.50/hr. X 10/hr. \$132,800 + fee Most Likely: 32 days down time x 20 FTES X \$41.50/hr. X 10/hr. \$256,500 + fee Visrot Case: 64 days down time x 20 FTES X \$41.50/hr. X 10/hr. \$551,200 + fee"	N/A 7/16/202	4 None	
RHTRU00	R2 TO3P2	D.2.04.30.14	IEC	Troescher, Pat	Larsen, Daphne	RH-TRU Waste Disposition: Achieving FY24/25 Milestones for Processing Lot 11 Containers Due to Complex Geometries	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 (iSA) and Delay to usite treatment plan scheduled agreement with DEQ to have all the STP waste out of the State of Idaho.	Complex geometries containing sodium or waste containing significant quantities (100g) of NaK are found in repackaging Lot 11 waste.	Open	Threat	Accept	Unlikely	Minor	2-Low	\$ 16,600	\$ 33,200	\$ 66,400	8	16	32	Schedule impact is based off SDS system being down and in need of repair. Best Case: 8 days down time X 5 FTES X \$41.50/hr. X 10/hr. = \$16,800Most Likely: 16 days down time X 5 FTES X \$41.50/hr. X 10/hr. = \$33,200Worst Case: 32 days down time X 5 FTES X \$41.50/hr. X 10/hr. = \$66,400	N/A 7/16/202	None	

RHTRUO	3 TO3P2	D.2.04.30.14	IEC	Troescher, Pat	Larsen, Daphne RH-TRU Waste Disposition: Processing Lot 11 Containers	Processing lot 11 containers are taking longer than planned due to inaccurate generator information. Causing the use of OT to catch up.	Inaccurate generator information.	Open	Threat	Mitigate	Possible	Minor	2-Low	\$ 24,900	\$ 49	9,800 \$	7,600 2	4	8	Best Case: 2 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$24,900 Most Likely: 4days O X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$49,800 Worst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$97,600	Implement overtime to recover schedule slippage and reduce further schedule interruptions.	7/16/2024	None
RHTRU3	0 TO3P2	D.2.04.30	IEC	Troescher, Patrick	Larsen, Daphne RH TRU Waste is Generated Higher than Anticipated	There is a risk that the RH TRU disposition project will exhaust interim Storage Container space for Lot 11 product drums generated that are greater than 200 mR/hr.	Shipping of LLW was put into priced option. Therefore, not being able to ship the waste will also producing additional waste will exhaust storage space.	Emerging	Threat	Accept	Almost Certain	Minor	3-Moderate			\$ 15,0	0,000 0		96			7/16/2024	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 TBU project will run out of space in three years (best case). Most likely case is estimated the RH TBU project will run out of space in two years, and worst case the RH TBU project will run out of space in one year.
SNF007	2 TO3P2	D.1.02.32.31	IEC	Ellsworth, Carla	Wahnschaffe, Steve 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 schedule delays.	Open	Threat	Accept	Likely	Minor	2-Low	\$ 107,016	\$ 214	4,032 \$ 5	5,080 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 I \$98/hr.Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.	, N/A	7/16/2024	None
SNF008	2 TO3P2	D.1.02.32.31	IEC	Ellsworth, Carla	Wahnschaffe, Steve Advanced Test Reactor (ATR) SNF Receipt: Camer Failures Due to High Radiation Fields	a ATR-Direct: High rad fields in the cave cause premature failure of the cameras in the CPP-603 fuel handling cave.	Failed remote cameras hinder or prevent normal fuel handling operations in the CPP-603 IFSF cave and fuel storage area.	Open	Threat	Mitigate	Likely	Minor	2-Low	\$ 45,864	\$ 214	4,032 \$ 4	8,064 3	14	28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hrMost Likely: 14 days X 12 hr. X 13 FTEs X \$98/hrWorst 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	7/16/2024	None
SNF009	2 TO3P2	D.1.02.34.02	IEC	Ellsworth, Carla	Wahnschaffe, Steve CPP-749 1st Generation Vaults Remediation: Changing CPP-749 Security Requirements	CPP-749 Remediation: Project activities are delayed because of changing CPP-749 security requirements.	Requirements derived from planned security related vulnerability assessments impose more restrictive security controls.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 45,864	\$ 214	4,032 \$ 4	8,064 3	14	28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hrMost Likely: 14 days X 12 hr. X 13 FTEs X \$98/hrWorst Case: 28 days X 12 hr. X 13 FTEs } \$98/hr	N/A :	7/16/2024	None
SNF010	2 TO3P2	D.1.02.34.02	IEC	Ellsworth, Carla	Wahnschaffe, Steve 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	Threat	Accept	Possible	Minor	2-Low	\$ 107,016	\$ 214	4,032 \$ 5	5,080 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	7/16/2024	None
SNF011	2 TO3P2	D.1.02.34.02	IEC	Ellsworth, Carla	Wahnschaffe, Steve CPP-749 1st Generation Vaults Remediation: Excessive Corrosion in The Peach Bottom Vaults	CPP-749 Remediation: Fuel packages stored in certain Peach Bottow vaults are found to have excessive corrosion, precluding normal fuel package retrieval methods.	 During Peach Bottom vault inspections, corrosion capable of jeopardining the structural integrity of the fuel package lifting feature is observed. A discharge of fuel is observed when lifting a fuel package to visually inspect its bottom. 	Open	Threat	Accept	Possible	Minor	2-Low	\$ 107,016	\$ 214	4,032 \$ 5	5,080 7	14	204	Best Case: 7 days X 12 hr. X 13 FTEs X \$80:hr. Most Likely: 14 days X 12 hr. X 13 FTEs \$98/hr. Worst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr.		7/16/2024	None
SNF015	2 TO3P2	D.1.02.32.31	IEC	Ellsworth, Carla	Wahnschaffe, Steve Advanced Test Reactor (ATR) SNF Receipt: 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	Mitigate	Almost Certain	Critical	5-Very High	\$ 45,864	\$ 1,700	0,000 \$ 1,7	0,000 3	208	208	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hrMost Likely: 14 days X 12 hr. X 13 FTEs X \$98/hrWorst Case: 28 days X 12 hr. X 13 FTEs) \$98/hr	Alternative work activities will me made available by upper management in the event of an ATR schedule delay.	7/16/2024	04/02 - This risk is most likely going to be realized for FY25. Expected to receive 0 out of the 8 shipments in FY25. Due to ATR elements not having enough run time and not less than 100
SNF016	2 TO3P2	D.1.02.32.31	IEC	Ellsworth, Carla	Wahnschaffe, Steve Advanced Test Reactor (ATR) SNF Receipt: Destaco Clamps Malfunction	ATR-Direct: Destaco clamps are partially open or closed and prevent movement of fuel-loaded canisters.	Destaco clamps found to be damaged or damaged when remotely attempting to open/close a clamp.	Open	Threat	Accept	Possible	Critical	4-High	\$ 1,231,258	\$ 2,308	8,608 \$ 2,6	6,422 96	180	204	Best Case: 96 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$1,231,258Most Likely: 180 days X 10 hr. X 13.36 FTEs X \$96/hr.= \$2,308,608Worst Case: 204 days X 10 hr. X 13.36 FTEs X \$96/hr. \$2 616 day2	N/A	7/16/2024	None
SNF017	2 TO3P2	D.1.04.02.02 D.1.04.02.03	IEC	Cotterell, Jaksen	Wahnschaffe, Steve SNF Staging Facility: Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized. (Construction crew size/personnel not available).	Open	Threat	Mitigate	Likely	Major	4-High	\$ 675,000	\$ 2,025	5,000 \$ 5,4	0,000 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.	Solicit subcontractor(s) for concrete activities and reinforcement activities.	7/16/2024	
SNF025	2 TO3P2	D.1.04.02.02	IEC	Cotterell, Jaksen	Wahnschaffe, Steve SNF Staging Facility: Vendor Selection	The RRDP determines which vendor and MPC system will be used. The selection changes the ID SNF-SF Basis of Design, and Safety Design Strategy (SDS). The design requires updates as well as SDS assumptions, strategy, and hazards.	The RRDP selects a different vendor than originally anticipated.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 650,000	\$ 1,450	0,000 \$ 2,3	0,000 120	180	300	Cost Ranges: SDS Rework: \$200K, 400K, 750K Design Rework: \$300K, 750K, 1M IEC management and DOE Coordination: \$150K, 300K, 600K	The RRDP has created an RFP and is actively pursuing vendor selection.	9/24/2024	Design needs to be reworked to accommodate a different cask system. - Status update: ORT is approved for QL-2 engineering services. They are not QARD compliant as of 5/22/2024.
SNF03	T03P2	D.1.04.01.06	IEC	Cotterell, Jaksen	Wahnschaffe, Steve SNF Staging Facility: Nuclear Safety Documents Wahnschaffe, Steve SNF Staging Facility: Security System and Facility Design Contract	Per STD-188-2016 it was determined that the Staging Facility will be simple modification and be able to fall under existing SAB 112 and SAB 114. After submittal/coordination with DOE ICP and DOE HQ it is only accepted as a major modification. 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. Work performed for the interdependent designs exceed scheduled duration(s).	DDE evaluation determines that the Staging Facility is a major modification causing for rework of the determination and SDS. Agreements/contracts are not established as planned. The designs do not maintain the schedule duration. BEA does not perform the security design causing for additional time to setup a contract.	Realized Open	Threat	Accept Mitigate	Almost Certain Possible	Critical	5-Very High 2-Low	\$ 150,000	\$ 250	0,000 \$ 5 0,000 \$ 1,0	0,000 104	32	208	Best Case: 104 days and increase of \$500,000/work1.key Case: 156 days and increase of \$750,000/worst Case: 208 days ani- increase of \$1M Develop a second SOW, work through a secon- contract through subcontact administration. Additional coordination for IEC to manage two engineering firms and process paperwork. Bes Case: 2 weeks @ 04hr/week X IFT @ \$100/hr: 4 weeks @ 5h rr. for sub administration @ \$30/hr. Most Likey? 4 weeks @ 40hr/week X 1.5 FTE @ \$100/hr: 4 weeks @ 95 hr. for sub administration @ \$30/hr. Most Case: 2 weeks @ 10hr/week X 2 FTE @ \$100/hr: 4 weeks @ 5h rr. for sub administration @ \$30/hr.	Communication to achieve alignment with DOE ICP prior to reviews with the CNS and other HQ personnel. Work with BEA to perform the design work via a formal agreement. Work with an external engineering firm to provide the pad design. Coordinate durations in both agreements.	9/24/2024	None
SNF05	тозр2	D.1.02.34.02	IEC	Elisworth, Carla	Wahnschaffe, Steve Peach Bottom: Mobile Crane Maintenance	Esceeding the Mobile Crane manufacturers recommended operating hours for performing routine maintenance delay: 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	\$ 18,000	\$ 46	6,000 \$	2,000 1	2	4	Best Case: 1 day plus equipment/materialsMost Likely Case: 2 days plus equipment/materialsWorst Case: 4 days plus equipment/materials	I.) Increase periodicity of planned maintenance. 2.) Perform additional routine observations to the machines monitoring system so maintenance can be planned and performed in accordance with the manufacturers recommendations. 3) The crane will be removed and sent to CFA big shop for preventative maintenance.	7/16/2024	None
SNF32	TO3P2	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Thompson, Thomas 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	Accept	Almost Certain	Serious	5-Very High	\$ 200,000	\$ 400	0,000 \$ 5	0,000 32	48	96	Hottec 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 audite prior to and fabrication work performed.	QA department to provide Holtec with a checklist of potential audit requirements to allow Holtec to understand requirements. Add item on schedule to track audit scheduling and completion.	7/16/2024	
SNF32	TO3P2	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Thompson, Thomas SNF Packaging Criteria	Due to the UCRWM organization no longer defining SNF Packaging cirrentia 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	\$ 4,100	0,000 \$ 5,4	0,000 208	312	416		DDE-ID to work with DDE-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.	7/16/2024	
SNF32	TO3P2	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Thompson, Thomas Delay of Items Provided by Holtec	Delay of delivery of Holtec provided items will cause a significant delay to the project.	Holtec unable to receive material or fabricate items according to IEC Schedule.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,200,000	\$ 1,800	0,000 \$ 5,0	0,000 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.	7/16/2024	
SNF33	TO3P2	D.1.02.36.07	IEC	Woolstenhulme, Tyson	Thompson, Thomas Failed Root Weld	BEA/Liburdi weld repair machine cannot successfully repair a failed root weld.	Root weld fails inspection.	Open	Threat	Accept	Likely	Serious	4-High	\$ 350,000	\$ 700	0,000 \$ 1	0,000 20	52	96		For the Road Ready Demonstration, 10 DOESC's will be procured. The Demonstration will be loading 7 DOESC;s will a sparse. In the 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.	7/16/2024	
SNF33	ТОЗР2	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Thompson, Thomas 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	\$ 300	0,000 \$ 4	0,000 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.	7/16/2024	
SNF33	тозр2	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Thompson, Thomas West Truck Ramp Design	Design of the West Track 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-High	\$ 150,000	\$ 300	0,000 \$ 4	0,000 32	64	96		During the design process, MCP-3358 to evaluate the structural integrity of the scillity and modifications wil be followed. A critical decision will be made to determine feasability to place cask in the crane evelope on the West Truck Ramp compared to costs and effort.	7/16/2024	

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2015332	10392	D.1.02.36.06	IEC	wooistennuime, iyson	inompson, inomas	propped cask in the Crane Envelope	During operations in the event or a drop of the cask in the crane envelope, significant damage could be sustained to the facility.	During operations, a cask drop occurs.	Upen	inreat	Accept	Likety	Serious	4-High	\$ 150,000 \$	300,000	\$ 450,000	32	64	96		During the design process, MCP-326s to evaluate the structural integrity of the facility and modifications will be followed. If the analysis shows failure of the west Truck ramy will be crut, 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.	//16/2024	
SNF336	ТОЗР2	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Thompson, Thomas	Drop Analysis of Cask Determines Potential SS Structure Damage	If the analysis of a drop of a cask determines damage will be done to the SS structure of the facility, modification may be needed to further support facility structure.	During operations, a cask drop occurs.	Open	Threat	Accept	Likely	Serious	4-High	\$ 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. 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 cask drop occurs during operations, MCP-3358 will be followed to determine extent of the damage.	7/16/2024	
SNF337	ТОЗР2	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Thompson, Thomas	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 \$	300,000 \$	\$ 450,000	32	64	96		During the design process, MCP-335 to evaluate the structural intergify of the facility and modifications will 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.	7/16/2024	
SNF338	TO3P2	D.1.02.36.06	IEC	Woolstenhulme, Tyson	Thompson, Thomas	Transfer Route Not Approved	Road Ready Demonstration Transfer route is not approved for VCT use.	Engineering evaluation of potential transfer routes identifies that no route is acceptable for VCT.	Open	Threat	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. Attensive methods of transfer of cask to include heavy haut trailer and renting single failure proof crane or similar method to transfer cask. Engineering will tacilitate 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.	7/16/2024	
SNF339	TO3P2	D.1.02.36	IEC	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 o 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.	7/16/2024	
SNF340	TO3P2	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Thompson, Thomas	CPP-603 Does Not Have Necessary Utilities	CPP-603 Cave does not have necessary utilities to support Packaging Demonstration Operations.	Inadequate existing utility features prevent Packaging 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.	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.	7/16/2024	
SNF341	TO3P2	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Thompson, Thomas	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.	7/16/2024	
SNF342	TO3P2	D.1.02.36.03	IEC	Woolstenhulme, Tyson	Thompson, Thomas	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 period.	Historically, electricians and technicians have been able to repair the system successfully. Crane PMs/other maintenance is performed on schedule.	7/16/2024	
SNF343	T03P2	D.1.02.36.08	IEC	Woolstenhulme, Tyson	Thompson, Thomas	Holtec Contract Delay	Contract Delay for Holtec/ORT to obtain a Foreign Ownership, control, or Influence. (FOCI) approval to allow IEC to place contract for equipment.	Vendor delays getting FOCI or is rejected.	Open	Threat	Accept	Possible	Major	4-High	\$ 1,200,000 \$	1,800,000	\$ 5,000,000	48	96	192		Vendor working with DOD to get FOCI completed, and DOE accept DOD's FOCI approval. If Holtec/ORT does not obtain FOCI approval. IEC will select alternative supplier (SpectraTek) because they are a partnering team member and IEC has an IDIQ master contract in place. If IEC cannot use SpectraTek, IEC will need to develop new SOW, put It out for bid, get bids back, perform analysis, select whodic, usue contract. If vendor is not currently on IEC's QSL, IEC would initiate vendor approval process. FOCI for Holtec/ORT not necessary as information provided will not be sensitive.	7/16/2024	This risk is being retired. Contractor (Holtec/ORT) has obtained necessary clearance.
SNF347	TO3P2	D.1.02.36.03	IEC	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 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-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 Illian 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.	7/16/2024	
SNF352	TO3P2	D.1.02.30	IEC	Ellsworth, Carla	Wahnschaffe, Steve	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 to different scope.		7/16/2024	
SNF353	TO3P2	D.1.02.33	IEC	Ellsworth, Carla	Wahnschaffe, Steve	DCS: 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 result in schedule and cost increases to revisit and solve issues.	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	Impacts are estimated based off historical variance and SME judgement.		7/16/2024	
SNF354	T03P2 T03P2	D.1.02.33	IEC	Ellsworth, Carla	Wahnschaffe, Steve Wahnschaffe, Steve	DCS: Schedule Delays Due to Higher Priorities DCS: Loss of SME Experience	Other work takes priority and pushes out install of DCS panels. Results in schedule delays. Less experienced staff take longer to complete schedule activities than originally planned. The project will	Other projects take priority over DCS. Project loses experienced personnel.	Open Emerging	Threat	Accept	Possible	Moderate Major	2-Low 4-High	\$ 15,000 \$ \$ 30,000 \$	75,000 \$	\$ 300,000 \$ 250,000	12	32 87	96	Impacts are estimated based on SME judgement for other project projections. Estimates are based on historical variance and SME judgement.		7/16/2024 7/16/2024	
TO3002R	TO3P2	Project Wide	IEC	Multiple CAMs	Allen, Jason	Global Risk: Work Delay Due to Abnormal Weather Conditions	Experience schedule delays and cost intreases. Severe weather conditions that go above adove the severe severe severe severe conditions that go above 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	1	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	7/16/2024	None
TO3005R	ТОЗР2	Project Wide	IEC	Multiple CAMs	Allen, Jason	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-Low	\$ 500,000 \$	1,000,000	\$ 7,000,000	1	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	7/16/2024	None
TO3P2005	a TO3P2	Project Wide	IEC	Multiple CAMs	Allen, Jason	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.	Impacts from line-item project funding causes limitations that impact the execution of the base scope.	Open	Threat	Share	Almost Certain	Critical	5-Very High	\$ 1,000,000,000 \$ 1	,350,000,000	\$ 1,700,000,000	900	1,350	1,800	Best Case: Most Likely Case:Worst Case:	Proposed Share to DOE	7/16/2024	None
TRU007R	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	CH-TRU Waste Disposition: Failure of Characterization Equipment Will Impact CH TRU Waste Certification	If WIPP certified characterization equipment fails 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-Moderate	\$ 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.= \$102,000 Worst Case: 102 days x 10 hr./day x 2 people x \$75/hr.= \$153,000	Ensure/procure critical spare parts are on hand as availability allows.	7/16/2024	None

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11001212	105#2	0.2.03.31.06		byraill, George	CIRIOWI	Chri No Waste Displantion. Non-Deal dLiver Assay (INDA) Results. Joing ISOCs and All Often Available NDA Equipment, Will Not Provide a Valid Assay Result for The Entrie Inventory of Waste Containers At The RWMC	In Nort Solary, Solarg SJOCs and all other available YUM equipment, will not provide valid asay results for the entre inventory of waste containers at the RVMC, then both TRU and MLUX certification cannot be completed. This may result in the need for repachaging of waste containers by splitting the waste into multiple daughter 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 RVMC.	Concarrers fan assay uue to ingingarinna.	Open	Inreat	mitgate	Kare	Moderate	1-LOW	\$ 48,000	\$ 95,000	\$ 144,000	15	32	48	pest-Gase: to days A D m/day A people X \$757hr: \$48,000 Most identify problematic wasks, and make nortification. Ukkly: 22 days X 10 hr/day X 4 people X \$757hr: \$58,000 Worst Case: 48 days X 10 hr/day X 4 people X \$75/hr: = \$144,000	//16/2024	None	
TRU019R2	T03P2	D.2.03.31.06	IEC	Byram, George	Unknown	CH-TRU Waste Disposition: The Annual Site 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.	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 Creditations, Creditations, Real Time Radiography, Non-Destructive Assay, etc., activities in support of profiling and certification of waste streams B)Delays in external, DOC-10 and the CBCA gaprovale of characterization, profiling and certification CPCP requires an action and DOE- certification. CPCP requires an action and DOE- certification creditors or paint of the CPC and potentially generate orphan waster or could delay waste processing, require reprocessing, or delay profiling and certification. D) WPm 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 :	\$ 99,200	\$ 201,600	32	62	84	Best Case: 32 days x 10 hr./day x 2 people x S80/hr. = 55.120 Uikely: 62 days x 10 hr./day x 2 people x S80/hr. = 58.20 Case: 84 days x 10 hr./day x 3 people x \$80/hr. = \$201,600	7/16/2024	None	
TRU022	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	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	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. = \$95,000 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. = \$192,000	7/16/2024	None	
TRU023	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	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 valiable, then a non-RCRA facility will be required with potential update of ARP waste CERCLA requirements.	ARP waste requires reprocessing or testing.	Open	Threat	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 Short term-complete CBFO authorized testing. If \$75/hr.= \$96,000 Most results show that ammonium nitrate in ARP waste is Likky: 64 days x 10 hr./day x 4 people x accetable, risk can be closed. If n.ot, development \$75/hr.= \$192,000 of a DOE-I/DCBFO authorized asmpling and/or Worst Case: 128 days x 10 hr./day x 4 people x remediation plan will be necessary using a facility \$75/hr.= \$384,000 that will not change the waste class from CERCLA to	7/16/2024	None	
TRU024	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	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 fail BoK criteria.	Open	Threat	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 Itekley 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. = \$66,000	7/16/2024	None	
TRU025	тозр2	D.2.03.31.06	IEC	Byram, George	Unknown	CH-TRU Waste Disposition: Product Drums Cannol be Certified	If TFU product drums that fail container integrity (CI) inspections received allowable fissing arm equivalence (FGE) limits for a standard waste box (SWB) and the Advanced Mixed Waste Facility (AMWTF) is not available for reprocessing them 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	Threat	Mitigate	Possible	Serious	3-Moderate	\$ 96,000 \$	\$ 192,000	\$ 384,000	32	64	128	Best Case: 32 days 10 hr/day 4 people x CBFO authorization of overpack bags for product \$75/hr. = \$86,000 Most drums, with the overpack bag FGE limit higher than Likely: 64 days 10 hr/day x 4 people x s75/hr. = \$102,000 of an SWB \$75/hr. = \$384,000 \$34,000 s74	7/16/2024	None	
TRU026	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	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 ANWTF is not available for reprocessing.	Open	Threat	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 \$75/hr. = \$396,000 Most Ukkey: 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	7/16/2024	None	
TRU027	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	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	Threat	Mitigate	Possible	Critical	4-High	\$ 96,000 3	\$ 192,000	\$ 384,000	64	128	256	Best Case: 64 days x 10 hr./day x 2 people x \$75/hr. = \$120,000 Most \$75/hr. = \$120,000 Kost \$75/hr. = \$120,000 Kost	7/16/2024	None	
TRU028	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	CH-TRU Waste Disposition: Waste Container Overpack Availability Issues	If commodities (slip sheets, TDOP and SWB) are limited and shipments cannot be computed 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.	Commodities provided by DDE are not available to support final certification and/or WIPP shipments.	Open	Threat	Mitigate	Possible	Critical	4-High	\$ 96,000	\$ 192,000	\$ 384,000	64	128	256	Best Case: 64 days x 10 hr./day x 4 people x \$75/hr. = \$96,000 Most Likely: 128 days x 10 hr./day x 4 people x \$75/hr. = \$192,000 Most \$75/hr. = \$182,000 Source and the state of the s	7/16/2024	None	
TRU029	T03P2	D.2.03.34.04	IEC	Martin, David	Unknown	CH-1RU 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	Threat	Mitigate	Likely	Moderate	3-Moderate	\$ 18,000	\$ 36,000	\$ 54,000	10	32	48	Dest Case: 10 days x 10nr/day x 4 people x Schrint = 315.000Most Likey; 20 days x 10nr./day x 4 people x 545/nr. = 353.000Worst Set Case: 20 days x 10nr/day x 4 people x 545/nr. = S54.000 Best Case: 10 days x 10nr/day x 4 people x 545/nr. =	7/16/2024	None	
TRU031	TO3P2	D.2.03.35.06	IEC	Hubler, Rachelle	Unknown	Equipment Replacement Need CH-TRU Packaging and Transportation:	breakdown, end of useful life, fabrication of new drum movement components/attachments, etc. Delays associated with receipt of various commodities due	unable for purchasing or long lead times.	Open	Threat	Mitigate	Likely	Minor	2-Low	\$ 14,400 \$	\$ 28,800	\$ 43,200	8	16	24	\$45,fir,r. = \$28,800Most Likely: 32 days x needing replacement in the future. 10hr/day x 4 people x \$50/hr. = \$64,000Worst Case: 48 days x 10hr/day x 4 people x \$55/hr. = \$105,600 Best Case: 8 days x 10hr/day x 4 people x	7/16/2024	None	
TRU032	TO3P2	D.2.03.35.04	IEC	Hubler, Rachelle	Unknown	Commodity Availability/Cost Increases/Alternate Vendor Needs CH-TRU Packaging and Transportation: CH-	to vendor delays with raw material delivery/manufacturing. Commodities include tent materials, helium leak detectors and/or shipping materials. Waste Returned for Out-of-Compliance Determination by	Containers fail inspection or are out-of-	Open	Threat	Mitigate	Likely	Major	4-High	\$ 80,000	\$ 100,000	\$ 250,000	50	75	90	45/hr. = \$14,400Most Likely: 16 days x 10/hr./day x 4 people x 45/hr. = \$28,800Worst Case: 24 days x 10/hr./day x 4 people x 45/hr. = \$43,200 Best Case: 50 days x 10/hr./day x 4 people x Increase monitoring and testing the integrity of	7/16/2024	None	
		D.2.03.35.05				TRI/LW/MLUW Waste Returned for Out-of- Compliance Determination	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.	compliance.													45/hr. = \$80,000Most Likely: 75 days x 10hr:/day x 4 people x 45hr. = \$100,000Worst Case: 90 days x 10hr/day x 6 people x 45/hr. = \$250,000Transportation and loading/unloading costs \$150K-\$200Kinspection costs \$80k- \$250K			
TRU033	103P2	0.2.03.36.05	IEC	Vargesko, Matthew	Unknown	IAWW IV LLW/NLLW Disposition: Pallet and/or Macrobag Procurement Vendor Output Issues Impact Shipping Schedule and Shipment Destination	Issues at the palet and/or marcbag vendor site may disrupt or ability to acquire these materials in a timely manner. Not being able to procure the needed materials may delay onsite marcencepsublation (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 cost. If we must ship to a commercial facility instead of the Nevada National Security Site (NNSS), it will greatly increase cost.	www.kU bags and pallets cannot be funded, or the vendor is not able to provide their product.	Open	Threat	Mitigate	Possible	Minor	2-Low	\$ 15,000	s 15,000	\$ 114.000	8	8	32	test Case: We continue to order MACRO bags and pallets for MLW shipment. Which costs approx. \$15,000 per shipment. Most Likely: We continue to order MACRO bags and pallets for MLW shipments, which costs approx. \$15,000 per shipment. Worst Case: We cannot acquire MACRO bags and must ship a 6 BR-90 shipment to WCS instead of NNS: 6 BR-90 s.255 f 6 = 15.5m3. 15.3m3 macroencapsulation at WCS costs \$2440,11 per m3. 15.3 * \$7449.11 = \$113,971 = \$114,000.	9/9/2024		
TRU035	TO3P2	D.2.03.32.05	IEC	Martin, David	Unknown	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	Threat	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 Likky: 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 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr. = \$192,000 Worst Case:	7/16/2024	None	
TRU036	TO3P2	D.2.03.32.05	IEC	Martin, David	Unknown	[CH-TRU Treatment Facility Support: Ammonium Nitrate Changeover	Difficulty/delays caused by not being able to determine the best path forward to be able to treat and package Ammonium Nitrate bearing waste in a safe and compliant manner.	Ammonium Nitrate waste requires reprocessing or testing.	Open	Threat	Mitigate	Likely	Serious	4-High	\$ 96,000	\$ 192,000	\$ 384,000	32	64	128	Best Case: 32 days x 10 hr /day x 4 people x Implement the usage of overtime to recover any \$75/hr. = \$96,000 Most Ukkly: 64 days x 10 hr /day x 4 people x \$75/hr. \$schedule slippage and prevent total schedule loss. Likely: 64 days x 10 hr /day x 4 people x \$75/hr. \$si34,000	7/16/2024	None	

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10039	10392	D.2.03.37.04	IEC	Martin/Loftus	Unknown	AMW IP BOP Maintenance: Replacement Parts Are Out of Compliance or Unavailable	Advanced Mixed Waste i reatment Project (AWW IP) is an aging facility and project in need of constant repairs for continued operations.	Parts and equipment are unavailable or obsolete to keep equipment operating.	Open	Threat	Mitigate	Almost Certain	Serious	5-Very High	\$ 350,000	\$ 500,0	000 \$ 1	1,000,000	16	64	128	Best Case: 16 days x 10 hr/day x 4 peoplex x brontate planned and regular communication with S75/hr. 548, communication with Likkey 64 days x 10 hr/day x 4 peoplex \$75/hr. 128 days x 10 hr/day x 4 peoplex \$75/hr. back-up purposes. 534.000	7/16/2024	
FRU040	TO3P2	D.2.03.31.06	IEC	Byram, George	Unknown	CH-TRU Waste Disposition: BEA Cannot Comple Potential Classified Document Reviews	te 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	Threat	Accept	Likely	Critical	5-Very High	\$ 156,000	\$ 312,0	000 \$	468,000	104	208	312	Best Case: 104 days x 10 hr./day x 2 people x N/A \$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. = \$457/hr. = \$458,000	7/16/2024	None
FRU043	TO3P2	D.2.05.30.19	IEC	Orme, Jason	Unknown	Non-AMWTP Treatment and Disposal: Waste 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	Threat	Mitigate	Rare	Minor	1-Low	\$ 54,000	\$ 81,0	000 \$	108,000	4	6	8	Cortification rework and repackaging to meet Ensure proper training and qualifications Waste Acceptance Criteria	9/10/2024	
RU049	TO3P2	D.2.03.36.04	ιες	Vargesko, Matthew	Unknown	AMWTP LLW/MLLW: Generated RCRA Waste	Resource Conservation and Recovery Act (RCRA) waste that is generated as part IEC operations must be shipped offsite within 1 year of generation or IEC must provide documentation for wastes with no path to disposition. There is risk for funding to not be adequate for this scope due to it taking lower priority. If this risk were to materialize, it would affect shipments to commercial facilities (i.e. Energy Solutions (ES), Waste Control Specialists (WCS), Perma-Fix Florida (PFF)). 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 likely they will extend the one year for gether Newly Generated RCRA waste (i.e. there is no special waste content reason, only funding being the issue). If they issue a compliance order, and we don't meet the terms per their timeline, they can charge us \$37,500 chain of Compliance Orders. If a violator fails to take corrective action within the time specified in a compliance order, the Administrator may assess a civil penalty of not more than \$37,500 for each day of contuned noncompliance with the order. In addition, the EPA Administrator may assess a civil penalty on provide the State of whether issued to the original specified in a superior the Administrator may assess a civil penalty of not more than \$37,500 for each and generation the SPA Administrator may assess a civil penalty of not more than \$37,500 for each and any pennit tissued to the work of the Administrator may assess a civil penalty of not more than \$37,500 for each and we prove the SPA Administrator may assess a civil penalty of not more than \$37,500 for each and any compliance of the compliance of the time is the superior of the administrator may assess a civil penalty of not more than \$37,500 for each and the time the term and the top of the term is used by the	 Higher priority scope causes this work package to not get funded. 2) IEC generated RCRA waste is not shipped in acceptable timeframe. 	Open	Threat	Accept	Possible	Minor	2-Low	\$ 37,000	\$ 150,4	000 \$	600,000	1	4	16	\$3008(c): Violation of Compliance Orders N/A If a violator fails to take corrective action within the time specified in a compliance order, the Administrator may assess a civil penalty of not more than \$37,500 for each day of continued 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 bivey 1 - 2 years. The costs associated with permit suspension/revocation are unknown above and beyond the daily costs of the penalty fees due to the large programmatic impact of such an event.	9/9/2024	
FRU301	TO3P2	D.2.03.34	IEC	Martin, David	Unknown	Equipment Availability	Administration of the Charlet The robot is not delivered when the project expected to receive it. This causes delays to the schedule.	The robot is not delivered on the day it was expected to.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 10,000	\$ 20,0	000 \$	40,000	8	16	32	Numbers developed based on CAM judgement. N/A Subcontractor cost and schedule are in development and will be used to fine tune risk.	8/7/2024	
RU302	TO3P2	D.2.03.34	IEC	Martin, David	Unknown	Less Than Anticipated Throughput	Once received, the robot does not perform as fast as anticipated. When throughput is less than anticipated, the project will experience schedule delays.	The project realizes the robot performs scans slower than originally anticipated.	Open	Threat	Mitigate	Rare	Minor	1-Low	\$ 5,000	\$ 20,0	000 \$	40,000	4	16	32	Current numbers based on CAM judgement, subcontractor schedule and cost are being developed and will allow fine tune of risk	8/14/2024	
FRU303	TO3P2	D.2.03.34	IEC	Martin, David	Unknown	Availability of Drum Move Crew	Crews are not available to move drums in support of Ultrasonic Testing due to higher priority scope, resulting in schedule delays.	Ultrasonic Testing is paused until crew is available to move drums to robot location.	Open	Threat	Accept	Unlikely	Minor	2-Low	\$ 5,000	\$ 20,0	000 \$	40,000	4	16	32	CAM judgement used to develop initial N/A numbers, subcontractor schedule and cost in development and will allow for fine tuning of risk evaluation	8/7/2024	
TRU304	TO3P2	D.2.03.34.07	IEC	Martin, David	Unknown	Subcontractor Costs	Subcontractor cost is higher than original estimate provided in the subcontract proposal.	IEC receives estimate that exceeds what was provided in the original estimate.	Open	Threat	Accept	Unlikely	Minor	2-Low	\$ 50,000	\$ 100,0	000 \$	200,000	0	0	0	There will be no schedule impact if this risk is realized. Cost impacts have been estimated based on potential fluctuation in the detailed scope of work that has been generated since the original estimate was received from the subcontractor.	8/7/2024	
4SD003	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Personnel Attrition Near the End of a 3-Year Window	Towards the end of the next 3 year window when people sense the project is completing they tend to leave & move on to a new project which can cause issues completing the latter part of the 3 year window. Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized.	Open	Threat	Accept	Rare	Serious	2-Low	\$ 75,000	\$ 450,4	000 \$	675,000	10	60	60	Best Case: 10 days X10 hrs/dy X10 FTEs X \$75/hr = \$75,000Most Likely Case: 60 days X10 hrs/dy X10 FTEs X575/hr = \$450,000Worst Case: 60 days X10 hrs/dy X 15 FTEs X \$75/hr = \$675,000	7/16/2024	Monitor staffing to hire if attrition is experienced.
ASD005	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Required Production Rates to Support Start of S Cap Construction (TO4-D)	DA The deadline of this Task Order is dependent on the DDE imposed milestone of the SDA Cap which is set to complete in 2028. In order to meet that deadline this project must be completed 3 years prior, requiring an aggressive schedule. Any potential delays could have significant impacts on the schedule.	Immediate schedule slippage during early component removal &/or decon	Open	Threat	Accept	Likely	Major	4-High	\$ 480,000	\$ 2,400,0	000 \$ 4	1,800,000	10	50	100	Best Case: 10 days X10 hrs/dy X 2 crews (20 N/A FTE3; X \$120hr - \$480,000Most Likely Case: 50 days X10 hrs/dy X 2 crews (20 FTEs) X \$120hr - \$2,00,000Wost Case: \$1220hr + \$2,00,000Wost Case: \$4,800,000	7/16/2024	Required productivity rates to maintain the SDA Cap construction may require extended shifts, extra shifts, overlime, &/or working during winter shutdown. Apply rigor to the readiness evolutions to have maximum available work for crew flexibility.
ASD006	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Loss of Contamination Control	Loss of contamination control (outside D&D boundaries) during open air facility demolition may result in personnel contamination and/or extended shutdown for recovery.	An unanticipated event driven by discovery of radiation outside of the boundary, possibly portable air monitor.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 60,000	\$ 277,	500 \$ 4	1,440,000	2	5	80	Best Case: 2 days X10 hrs/dy X2 crews (20 FTEs) X37 hr = \$60,000 hrs/dy X4FEs X57 hr = \$277,500 Worst Case: 80 days X10 hrs/dy X74 FTEs X \$75/hr = \$4,440,000	7/16/2024	Implement the following possible mitigations - Utilize new & improved fixatives if technically viable. • Re-emphasize the RAD safety protocols.• Svaluate expanded D&D bundaries. • Ensure adequate water suppression is in place.
ASD007	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Industrial Incidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	An unanticipated accident resulting in injury or near miss	Open	Threat	Accept	Rare	Minor	1-Low	\$ 60,000	\$ 150,6	000 \$ 2	2,880,000	2	5	96	Best Case: 2 days X10 hrs/dy X2 crews (20 N/A FTEs) X \$75/hr = \$60,000Most Likely Case: 5 days X10 hrs/dy X2 crews (20 FTEs) X \$75/hr = \$150,000Worst Case: 96 days X10 hrs/dy X2 crews (20 FTEs) X \$75/hr = \$2,880,000	7/16/2024	Implement the following possible mitigations: • Perform refreshers for stop work/pauses • Self-assess training/qualification dequacy • Enhanced pre-job briefings for critical activities.
ASD010	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Post Waste Operations Uncovers Hazardous Waste in Debris	Post waste disposal of the facility uncovers hazardous waste in the debris, resulting in recovery actions.	An unanticipated contamination discovery from routine rad surveys.	Open	Threat	Mitigate	Rare	Minor	1-Low	\$ 30,000	\$ 60,0	000 \$	480,000	1	2	16	Best Case: 1 day X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$30,000 Most Likely Case: 2 days X 10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000Worst Case: 16 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$480,000	7/16/2024	None
ASD017	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays.	Notification of intent to leave or retirement.	Open	Threat	Accept	Likely	Moderate	3-Moderate	\$ 150,000	\$ 300,6	000 \$ 1	1,800,000	5	10	60	Best Case: 5days X10 hrs/dy X2 crews (20 NA FTEs) X \$75/hr = \$150,000/Most Likely Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000/Worst Case: 60 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$1,800,000 crews (20 FTEs) X \$75/hr = \$1,800,000	7/16/2024	Implement the following possible mitigations - Monitor personnel performance, attendance, & job satisfaction to identify potential issues. • Cross-train critical resources, if feasible
ASD018	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Reliability of Equipment	Reliability of aged equipment could delay demolition start.	Repetitive maintenance, inability to place in service, or major failure.	Open	Threat	Accept	Possible	Minor	2-Low	\$ 60,000	\$ 150,0	000 \$ 1	1,050,000	2	5	10	Best Case: 2 days X10 hrs/dy X2 crews (20 NA FTEs) X37 hr = \$60,000 hrs/dy X2 crews (20 S days X10 hrs/dy X2 crews (20 FTES) X37 hr = \$150,000 Worst Case: 10 days X10 hrs/dy X2 crews (20 FTEs) X37 hr + \$750,000 Equipment =51,050,000	7/16/2024	Accelerate equipment assessment earl in the deactivation phase to allow enough time for repairs or purchase.
ASD024	TO4A	D.4.02.40	IEC	Chapple, Jason	Almahie, Amin	Union Contract Location Bidding	The Union contract now allows vacancy bids. There is a risk to the project that specific skill sets such as RCT/Mechanic/Electrican/Netrument Tech can now bid a different location opening a position that must be backfilled. This may be a large impact to the project.	Vacancy bidding	Open	Threat	Accept	Rare	Serious	2-Low	\$ 450,000	\$ 900,0	000 \$ 1	1,800,000	60	60	60	Best Case: (1 critical resource) 60 days X10 N/A hrs/dy X1 crew (10 FTEs) X57/hr = \$450,000Most Likely Case: (2 critical securces) 60 days X10 hrs/dy X1 crew (10 FTEs) X57/hr = \$\$900,000Most Case: (2 critical resources) 60 days X10 hrs/dy X2 crews (10 FTEs) X57/hr = \$\$1,00,000	7/16/2024	Solicit assistance from union to minimize impact.
054001	T05.1	D.5.01.51.07	IEC	Burtenshaw, Shawna	Larsen, Eric	Personnel Attrition	Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays	Attrition realized.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 37,500	\$ 225,0	000 \$	337,500	5	30	30	Best Case: 5 days X 10 hrs/dy X 10 FTEs X NA \$75/hr Most Likely Case: 30 days X 10 hrs/dy X 10 FTEs X \$75/hrWorst Case: 30 days X 10 hrs/dy X 15 FTEs X \$75/hr	7/16/2024	None
05A003	T05.1	D.5.01.51.07	IEC	Burtenshaw, Shawna	Larsen, Eric	Industrial Incidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues. Not securing a qualified subcontractor that can perform	An unanticipated accident resulting in injury or near miss	Open	Threat	Accept	Rare	Serious	2-Low	\$ 450,000	\$ 900,0	000 \$	2,700,000	16	32	48	INA System 20 and X10 http://X75 FE5 X NA System 20 and X10 http://X75 FE5 X System 20 and X10 http://X75 FE5 X575/htm Rescare the auditation and the audit and audit	7/16/2024	None
G3MUU3	103.1	0.3.01.51.09	IEL.	burterisnaw, Shawna	Larsen, Eric	Juounni du t wafagement	the explosive demolition in the time alloted for the project can cause schedule delays.	explosive demolition.	oµen	inreat	mitgate	ĸare	moderátě	1-LOW	ə 37,500	¢ /5,۱	>	223,000	10	52	04	Teres to use to use to represented by the difference in the already acquired sub vs new sub. Most Likely Case: 32 days cost is represented by the difference in the already acquired sub vs new sub. Worst Case: 64 days cost is represented by the difference in the already acquired sub vs new sub.	//10/2024	

TO54004	TO5 1	D 5 01 51 04	IEC	Burtonchaw, Shawna	Larcon Fric	or of Contamination Control	Loss of contamination control (outside D&D boundaries)	An unanticipated event driven by discovery of	Onon	Threat	Mitigata	Doro	Major	2.1 out	E60 E00	¢ 1,697,500	¢ 2.275.000	10	20	60	Reat Case: 10 days V 10 bro/ds/V 75 ETEc V	element Conduct of an availance into each access	7/16/2024	None
400ACO 1	105.1	1.04	iLC.	Concersion, Stawila	Lui serri, Li fi, L C		during demolition may result in possible DBU downadres) and/or extended shutdown for recovery.	potential radiological contamination outside of the demoltion boundary.	Jpen	mtat	rnogate	15018	endin		, 302,300	÷ 1,687,500	* 3,375,000	10	30	00	The sector of the sector	Janning and exect upter adviss into textI asplect Janning and exect upter adviss into textI asplect Attroch, hazard analysis and mitigation, pre-job effings, and safety oversight. Additionality - posed approach to demolition preparations is y conservative - 8601 has very too levels of tratmination. Develop Demolition Plan to orporate radiological monitoring during molition. Perform Additional Decon of tratminated Areas	10/2024	
TOSA005	T05.1	D.5.01.51.03	IEC	Burtenshaw, Shawna	Larsen, Eric Ca fo	atastrophic Failure of 125 Ton Overhead Crane r Prototype Dismantlement	Loss of use of the overhead crane for removal of reactor vessel and prototype componenets.	While using 125T Crane it becomes compromised and disabled	Open	Threat	Mitigate	Rare	Major	2-Low	\$ 569,808	\$ 1,139,616	\$ 2,279,232	16	32	64	October to Januaryappx. 60 days labor for Sub- DCES Rows 1254 thru 1376 total \$2.1M. Daily average is \$35.6K. Base this on a 16, 32, and 64 day.	ocontract Additional Crane Support	7/16/2024	None
TO5A006	T05.1	D.5.01.51.12	IEC	Burtenshaw, Shawna	Larsen, Eric La	arge Components to Onsite Waste Disposal	ICDF existing cells (1 and 2) space is unable to accept Reactor Vessel for disposal	ICDF informs NRF that they won't accept waste	Open	Threat	Accept	Unlikely	Major	3-Moderate	\$ 569,808	\$ 1,139,616	\$ 2,279,232	16	32	64	ICDF is shut down to accept new waste causing NA		7/16/2024	None
T05A007	T05.1	D.5.01.51.05	IEC	Burtenshaw, Shawna	Larsen, Eric O	ffsite Shipment of Haz Waste for Disposal	No TSDF available for offsite treatment of "hazardous"	During demo we find higher than anticpated	Open	Threat	Accept	Rare	Moderate	1-Low	142,452	\$ 284,904	\$ 569,808	16	32	64	Possible new waste path not to ICDF. BOE is NA		7/16/2024	None
							waste generated during demolition.	contamination.													based on activites 1254 thru 1376. 4 days on procedure and WO changes with minor contamination control changes. 8 days most likely to evaluate other suspect areas, and 16 dyss or 1 month delay on a worst case. 8 are based on \$35,6K per day.			
TO5A009	T05.1	D.5.01.51.13	IEC	Burtenshaw, Shawna	Larsen, Eric In of	ability to Use Explosives to Support Demolition Hot Cell and Superstructure	Convential/Mechanical demolition techniques are requied to be used for the demolition for S1W.	The Explosive demolition seismic evaluation determines that this process cannot be accomplished due to potential damage to adjacent NR facilities.	Open	Threat	Accept	Unlikely	Major	3-Moderate	571,520	\$ 1,143,040	\$ 2,286,080	16	32	64	Best Case: 16 days X 10 hrs/dy X 47 FTEs X NA \$76/hr Most Likely Case: 32 days X 10 hrs/dy X 47 FTEs X \$76/hr Worst Case: 64 days X 10 hrs/dy X 47 FTEs X \$76/hr Introduction		7/16/2024	None
TO5A010	T05.1	D.5.01.51.05	IEC	Burtenshaw, Shawna	Larsen, Eric Ra Di	ad Characterization of RV Determines Class C isposal Required	If Reactor Pressure Vessel (RV) is determined as Class C then that would require offsite disposal.	Reactor Pressure Vessel is determined to be Class C	Open	Threat	Accept	Rare	Serious	2-Low	428,640	\$ 857,280	\$ 1,714,560	12	24	48	Best Case: 12 days X 10 hrs/dy X 47 FTEs X NA \$76/hr Most Likely Case: 24 days X 10 hrs/dy X 47 FTEs X \$76/hr Worst Case: 48 days X 10 hrs/dy X 47 FTEs X \$76/hr Introduction		7/16/2024	None
NRC003R2	T06	D.1.06.60 D.1.06.61	IEC	Long, Jeff	Wahnschaffe, Steve Ni	RC Ucensed SMF Storage Facilities: Aging unditions of facilities	There are aging conditions at both TM-2 and FSV. Continued weathering and degradation is likely to require additional repairs and maintenance to concrete, paint, and other coatings. If these repairs and/or uggrades do not occur they will prohibit critical project completion and be identified as noncompliance with NRC requirements.	Continued degredation of facilites with out necessary repairs and/or upgrade	Open	Threat	Accept	Possible	Major	4-High :	\$ 100,000	\$ 250,000	\$ 500,000	48	80	96	Based on SME input.Best case is that lack of N/A funding will occur between activities resulting in scheduid elebys but no revork or additional mobilization/demobilization/stand-by impacts. Most likely case is that in addition to scheduid edelays, some re-work will be required, mobilization/demobilization of craws will be required, vendor costs will be higher due to inflation and securing specialized resources, and additional provement of equipment.Worst case is that funding is cut in the middle of the jor resulting in complete re- work, additional demobilization/mobilization costs, work site being left in condition to accentuate or accelerate deterioration conditions, etc.	1	7/16/2024	None
NRC007R2	TO6	D.1.06.60 D.1.06.62	IEC	Long, Jeff	Wahnschaffe, Steve N	RC Licensed SNF Storage Facilities: Loss of becialty Resources	Loss of qualified and trained resources could result in cost and schedule delays.	Retirement or notification of intent to leave.	Open	Threat	Accept	Likely	Serious	4-High	\$ 100,000	\$ 200,000	\$ 500,000	16	48	64	Based on SME input.Best case is that N/A replacement personnel are immediately	λ	7/16/2024	None
																					available with utile downtime of vacancy in the position. Most likely case is that it may take 1-2 months to fill in and train replacement. Worst case is that it may take 6 months or more to recruit new personnel and train.			
NRC011	TO6	D.1.06.60 D.1.06.63	IEC	Long, Jeff	Wahnschaffe, Steve N In	RC Licensed SNF Storage Facilities: Industrial cidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	An unanticipated accident resulting in injury or near miss	Open	Threat	Accept	Rare	Minor	1-Low S	\$ 20,000	\$ 50,000	\$ 300,000	5	10	30	Cost is based on ROM estimate to perform N/A corrective actions, but dependant on extent of event. Best case = incident is minor, and investigated quickly with very few corrective actions requiring ratention. Worst case = prolonged shut-down with extensive recovery actions, training, etc.	4	7/16/2024	None
NRC300	TO6	D.1.03.61.05	IEC	Long, Jeffery	Wahnschaffe, Steve Cr	ane Hydraulic Motor Repair	While performing hydraulic motor repairs on the crane, more issues are identified that will need to be resolved before continuing. The project will experience schedule delays and cost increases to resolve the additional problems.	More issues with the crane are identified.	Open	Threat	Accept	Rare	Minor	1-Low	\$ 2,000	\$ 10,000	\$ 50,000	1	14	30	Cost and schedule delays based on vendor quotes to replace entire hydraulic motor. This is most likely case. Best case is based on SME input to obtain additional minor parts. Worst case based on SME input assuming additional issues are found with other parts and equipment.		7/16/2024	
NRC301	TO6	D.1.03.61.05	IEC	Long, Jeffery	Wahnschaffe, Steve In	compatible Equipment	New equipment purchased as part of the FY24 IPL, is not compatible and different replacements have to be purchased. The project will incur unforeseen costs from purchasing equipment not anticipated. The project will also experience schedule delays to perform the procurement and receiving items.	During install, equipment is discovered to be incompatible with the existing system.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 5,000	\$ 50,000	\$ 200,000	14	30	60	Best case assumes that equipment can be returned to the world without any penalities and minimum restocking fee. Most likely case assumes that only some equipment will cannot be returned to windor and delays to schedula and costs for additional trips by vendor to the facility. Worst case is based on needing to re- purchase all new equipment.		7/16/2024	
IWTU001R2	то7	D.3.06	IEC	Nahay, Jordan T	Neville, Trent M dc fo	VTU: The Canister Decon System will not contaminate the canisters to acceptable levels r transfer.	The Canister Decon System will not effectively or efficiently decontaminate the canister to levels acceptable for transfer between the Can Fill Cells and the canister storage vault and/or contamination spreads during can fill operations and the robotic decon system cannot remove sufficient contamination from the outside of a canister. This will most likely cause a spread of contamination outside of the can fill cells, thereby requiring additional contamination control mitigation.	Contamination levels exceed established limits and/or spreads outside of the can fill cells	Open	Threat	Accept	Possible	Moderate	2-Low s	\$ 84,000	\$ 180,000	\$ 900,000	14	30	150	Best Case: 14 days X 10 hr/day X 6 FF X NA \$100hr = \$40,000host Like() case: 30 days X 10 hr/day X 6 FF X \$100/hr = \$180,000Worst Case: 150 days X 10 hr/day X 6 FTE X \$100/hr= \$900,000	х 	7/16/2024	A contamination control mitigation was developed and implemented in Octage J in preparation for this event. Therefore the severity and duration of the risk impact has been reduced from the previous risk register.
IWTU009aR2	T07	D.3.06.70.01	IEC	Nahay, Jordan T	Neville, Trent IV	VTU: Lack of resources	Completing IWTU scope will be impacted due to a lack of resources.	The project cannot staff up as planned to support scheduled work.	Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 133,920	\$ 267,840	\$ 401,760	12	24	36	Best Case: 12 days x 10 hrs/day x 12 people x Inve \$\$93/hr = \$133,920Most Likely: 24 days x 10 gaps hrs/day x 12 people x \$\$93/hr = \$267,940Worst Inrs/day x 12 people x \$\$93/hr Case: 36 days x 10 hrs/day x 12 people x \$\$93/hr = \$401,760 upc.	estigate several different avenues to fill these box with subcontracted labor and hiring additional nners and supervisors. Routine communication h the Building Trades Business Agents on coming craft needs.	7/16/2024	None
IWTU010R2	T07	D.3.06.71.01	IEC	Nahay, Jordan T	Neville, Trent IV ac	VTU: The simulant is not fully representative of itual waste.	Simulant is not fully representative of actual waste. For example, mercury and heavy metals have not been included in the simulant. This may result in system performance problems causing delays.	Introduction of actual waste causes plant performance problems.	Realized	Threat	Mitigate Ali	most Certain	Serious	5-Very High	\$ 32,000	\$ 460,000	\$ 1,740,000	16	60	180	Best Case - 16 days X 10 hr/day X 2 FTE X Ram \$100/hr = \$32,000 Most Likely Case - 60 days X time 10 hr/day X 6 FTE X \$100/hr = \$360,000, test Material Cost = \$100,000Worst Case - 180 days X 10 hr/day X 8 FTE X \$100/hr = \$1.44M, Material Cost = \$300,000 Material Cost = \$300,000	mp up waste feed percentage (vs. simulant) ing System Performance Test. Review original tresults for accuracy and completeness.	7/16/2024	*Was open under phase 1. Identified under TO7 per Kirby/Oliver/Huntsman
IWTU016R2	T07	D.3.06.78.01	IEC	Nahay, Jordan T	Neville, Trent IV es	VTU: GAC replacement takes longer than stimated and extends the GAC Outage.	The GAC replacement will extend the current GAC outage schedule due to equipment design, procurement, and installation requirements during the outage.	Delays in GAC replacement delays completion of GAC Outage.	Open	Threat	Mitigate	Possible	Moderate	2-Low	216,240	\$ 432,480	\$ 864,960	4	8	16	Best Case: 4 days x 12 hrs/day x 17 people x Sub \$265/hr = \$216,240Most Likely: 8 days x 12 GAC hrs/day x 17 people x \$265/hr = \$432,480Worst Case: 16 days x 12 hrs/day x 17 people x	ocontractor to work additional days to complete C replacement.	7/16/2024	None
IWTU030R2	T07	D.3.06.70.01	IEC	Nowak, Joel T	Neville, Trent IV fu	VTU: The wet decon system rebuild does not inction as designed.	The wet decon rebuild has issues that do not allow the wet decon system to fully function as designed.	Unsuccessful operation of wet decon system.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 50,000	\$ 90,000	\$ 270,000	16	30	90	szts/hr = \$864,960 N/A Best Case: 16 days X 10 hr/day X 2 FTE X N/A \$100/hr = \$32,000Most Likely Case: 30 days X 10 hr/day X 3 FTE X \$100/hr \$90,000Worst Case: 90 days X 10 hr/day X 3 FTE X \$100/hr = 10 hr/day X 3 FTE X \$100/hr =	A	7/16/2024	None
IWTU036R2	T07	D.3.06.73.01	IEC	Nahay, Jordan T	Neville, Trent IV Cł	VTU PSB: Change orders Requiring Major Design hanges.	Change orders requiring major design changes are issued during excavation or construction, causing an increase in cost and schedule.	A change order requiring extensive re-design is issued during construction.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 180,000	\$ 270,000	\$ 405,000	20	30	45	\$270,000 Best Case: 20 days x 10 hrs/day x 4 people x \$225/hr = \$180,000Most Likely: 30 days x 10 hrs/day x 4 people x \$225/hr = \$270,000Worst pote Case: 45 days x 10 hrs/day x 4 people x \$225/hr \$	cussions with Force Account and Engineering ing additional walkdowns and reviews to identify ential issues before they impact schedule.	7/16/2024	None
IWTU037R2	T07	D.3.06.73.01	IEC	Nahay, Jordan T	Neville, Trent IV du	VTU PSB: Multiple minor change orders issued uring construction.	Multiple minor change orders are issued during construction, causing schedule delays and cost increases.	Multiple minor change orders are issued during construction or excavation.	Open	Threat	Mitigate Al	most Certain	Minor	3-Moderate	\$ 89,280	\$ 178,560	\$ 334,800	8	16	30	Best Case: 8 days x 10 hrs/day x 12 people x Disc \$93/hr = \$89,280 Most Likely: 16 days x 10 duri hrs/day x 12 people x \$93/hr = \$178,560Worst iden Case: 30 days x 10 hrs/day x 12 people x \$93/hr sche = \$334,800 \$34	cussions with Force Account and Engineering ing additional walkdowns and drawing to ntify potential issues before they impact ledule.	7/16/2024	None

IWTU041R2	T07	D.3.06.75.01	IEC	Nahay, Jordan	Neville, Trent	IWTU: Vendor weld prepping does not keep pace with production.	Vendor weld prepping of existing canisters cannot keep pace with IWTU production.	Onsite weld prepped canisters fall below120 canisters.	Open	Threat	Mitigate	Rare	Minor	1-Low	\$ 36,000	\$ 60,000 \$	90,000	2	9	13	Best Case: \$300/canister expedite fee x 120 canisters = \$36,000Most Likely: \$300/canister expedite fee x 200 canisters = \$60,000Worst Case: \$300/canister expedite fee x 300	Evaluate use of non-weld prepped canisters and accelerate shipping of canisters to subcontractor to build reserve inventory.	9/12/2024	
IWTU049	T07	D.3.06.78.01	IEC	Nahay, Jordan	Neville, Trent	IWTU: Unable to release vendor supplied equipment for GAC replacement.	Added cost due to the required purchase of vendor supplied equipment	Detectable contamination found on vendor supplied equipment.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 247,200	\$ 350,000 \$	853,200	1	2	3	canisters = \$90,000 Best Case: \$247,200 for equipmentMost Likely: \$350,000 for equipmentWorst Case: \$853,200 for equipment	N/A	9/12/2024	None
IWTU053	TO7	D.3.06.73.01	IEC	Nahay, Jordan	Neville, Trent	IWTU: PSB II construction is delayed.	Delays in PSB II construction results in inadequate storage capacity and operational delays.	PSB I is full and construction of PSB II is incomplete.	Open	Threat	Mitigate	Possible	Moderate	2-Low	\$ 150,000	\$ 300,000 \$	600,000	10	10	20	Tot equipment Best Case: 10 days X 10 hr/day X 10 FTE X \$150/hr=\$150,000Most Likely Case: 10 days X 10 hr/day X 20 FTE X \$150/hr=\$300,000 Worst Case: 20 days X 10 hr/day X 20 FTE X \$150/hr=\$600,000	Use additional overtime resources to complete PSB- II as soon as possible.	9/12/2024	None
IWTU054a	T07	D.3.06	IEC	Nahay, Jordan T	Neville, Trent	IWTU: BEA Support Services do not Meet IWTU Scheduled Need Dates.	IEC relies on BEA for support services on Milestones, regulatory commitments, and scope completion. If the work from BEA is delayed, or does not meet the requirements, it can cause a project schedule impact.	Insufficient quality of work product or timeliness of completion of BEA deliverables impacts project schedule.	Open	Threat	Share	Unlikely	Moderate	2-Low	\$ 93,000	\$ 390,600 \$	1,116,000	5	21	60	Best Case: 5 days X 10 hrs/dy X 20 FTEs X \$93/hrMost Likely Case: 21 days X 10 hrs/dy X 20 FTEs X \$93/hrWorst Case: 60 days X 10 hrs/dy X 20 FTEs X \$93/hr	Propose sharing risk with DOE.	7/16/2024	None
IWTU055	то7	D.3.06.77.01 D.3.06.77.02	IEC	Nahay, Jordan	Neville, Trent	IWTU: No Vaults for waste canister storage.	If subcontractor is unable to produce additional Vault construction by the time they are needed the project will run out of Vaults for waste canisfer storage. With only 5 vaults remaining for storage the project anticipates runnir out by approximately September 2025.	Having more canisters to place in Vaults for storage after remaining 5 Vaults are filled.	Emerging	Threat	Accept	Almost Certain	Critical	5-Very High	\$ 14,571,420	\$ 29,142,840 \$	43,714,260	60	120	180	Best Case: 60 days X \$242,857/dyMost Likely Case: 120 days X \$242,857/dyWorst Case: 180 days X \$242,857/dy	NA	9/17/2024	
IWTU056	то7	D.3.06.75.02	IEC	Nahay, Jordan	Neville, Trent	IWTU: No waste canisters available for storage.	If subcontractor is unable to produce additional waste canister production by the time they are needed the project will rou out of waste canisters. With only 80 canisters remaining for storage the project anticipates running out by approximately April 2025.	Having more waste to store in canisters after reamining 80 canisters are filled.	Emerging	Threat	Accept	Almost Certain	Critical	5-Very High	\$ 7,285,710	\$ 10,928,565 \$	14,571,420	30	45	60	Best Case: 30 days X \$242,857/dyMost Likely Case: 45 days X \$242,857/dyWorst Case: 60 days X \$242,857/dy	N/A	9/17/2024	
IWTU301	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	IWTU: Pilot Plant Driven Plant Mods	Hazen drives facility modifications that require a facility shutdown which delays completion of SBW processing campaign.	Haten Run discovers the need for further plant modifications.	Open	Threat	Accept	Possible	Serious	3-Moderate	\$ 200,880	\$ 401,760 \$	803,520	30	60	120	Best Case: 30 days x 12 hrs/day x 6 people x \$93/hr = \$200,880 Most Likely: 60 days x 12 hrs/day x 6 people x \$93/hr = \$401,760 Worst Case: 120 days x 12hrs/day x 6 people x \$93/hr = \$803,520		9/17/2024	
IWTU302	T07	D.3.06.70.01	IEC	Nahay, Jordan	Neville, Trent	Additional Calcined Coal is Needed	Calcined coal reserves are depleted before SBW tanks are emptied and rinsed.	Inventory is reduced at a faster pace than previously anticipated or IWTU is forecasted to operate for a longer period of time due to various issues.	Open	Threat	Accept	Possible	Critical	4-High	\$ 1,015,000	\$ 2,030,000 \$	3,045,000	120	180	365	Best Case: 500000 pounds at \$2.03 / lb Most Likely Case: 1000000 pounds at \$2.03 / lb Worst Case: 1500000 pounds at \$2.03 / lb		9/24/2024	
IWTU303	TO7	D.3.06.70.01	IEC	Nahay, Jordan	Neville, Trent	Previous Calcined Coal Source is Unavailable	Vendor is unable to utilize original mine used for calcine coal procurements.	The current source of calcined coal is no longer available.	Open	Threat	Accept	Possible	Critical	4-High	\$ 75,000	\$ 125,000 \$	1,275,000	60	120	365	Rough subcontracted costs for the process of sourcing, testing and validating an adequate source of calcined coal. Worst case contains the costs of a Hazen Pilot Plant Run to verify.		9/24/2024	
IWTU304	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Overtime Required to Complete Performance Milestones	Additional overtime is needed to maintain plant operability in an effort to reach the Site Treatment Plan milestone.	WTU issues that reduces the plant's output and/or operability require additional personnel to keep plant operating.	Open	Threat	Accept	Likely	Moderate	3-Moderate	\$ 160,704	\$ 321,408 \$	482,112	12	24	36	Best Case: 12 days x 12 hrs/day x 12 people x \$93/hr = \$160,704 Most Likely: 24 days x 12 hrs/day x 12 people x \$93/hr = \$21,408 Worst Case: 36 days x 12 hrs/day x 12 people x \$93/hr = \$482,112		9/10/2024	
IWTU305	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Additional Waste Canisters	Additional canisters are needed to complete SBW and rinsate treatment.	More than 1,648 canisters are needed.	Open	Threat	Accept	Possible	Critical	4-High	\$ 5,600,000	\$ 18,150,000 \$	24,800,000	150	500	690	Best Case: 224 canisters x \$25,000/canister = \$5,600,000 Most Likely, 726 canisters x \$25,000/canister = \$18,150,000 Case: 992 canisters x \$25,000/canister = \$24,800,000		9/24/2024	
IWTU306	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Additional Canister Vaults	Additional vauits are needed to complete SBW and rinsate treatment.	More than 103 Vaults are needed.	Open	Threat	Accept	Possible	Critical	4-High	\$ 8,400,000	\$ 27,600,000 \$	37,200,000	150	480	620	Best Case: 14 Vaults x \$600,000/Vault = \$8,400,000 Most Likely, 46 Vaults x \$600,000/Vault = \$27,600,000 Worst Case: 62 Vaults x \$600,000/Vault = \$37,200,000		9/24/2024	
IWTU307	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Additional Product Storage Building	PSB II is filled to capacity before SBW tanks are emptied and rinsed.	PSB-II is estimated to be filled within 2 years.	Open	Threat	Accept	Possible	Critical	4-High	\$ 8,000,000	\$ 20,000,000 \$	28,000,000	540	730	900	Best Case: Smaller PSB-III Most Likely: PSB-III identical to PSB-II Worst Case: PSB-III larger than PSB-II		9/24/2024	
IWTU308	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	INTEC Issues affect IWTU	INTEC causes idle time for IWTU. Impact to IWTU operations.	Issues at INTEC causes inability to send waste to IWTU.	Open	Threat	Accept	Possible	Critical	4-High	\$ 6,300,000	\$ 12,600,000 \$	25,200,000	12	24	48	Best Case: 3 weeks * \$2,100,000/week = \$\$6,300,000 Most Likely: 6 weeks * \$2,100,000/week = \$12,600,000 Worst Case: 12 weeks * \$2,100,000/week = \$25,200,000		9/24/2024	
IWTU309	T07	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Major Equipment Needs Replaced Ahead of Anticipated Service Life	Significant equipment or component failure that requires replacement and was previously estimated to last the life of the facility.	Forced shutdown of IMTU due to component failure that is unable to be repaired and requires replacement.	Open	Threat	Accept	Unlikely	Critical	3-Moderate	\$ 800,000	\$ 1,800,000 \$	5,000,000	120	240	365	Best Case: Replacement Duration 120 days for 7 FTE's at \$93/hr Most Likely: Replacement Duration of 240 days for 8 FTE's at \$93/hr Worst Case: Replacement Duration of 365 days for 14 FTE's at \$93/hr.	N/A	9/12/2024	