AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CO	ONTRACT		CONTRACT ID CODE	PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
P00074	See Bloo					, ,
6. ISSUED BY CODE	893042		7. ADN	MINISTERED BY (If other than Item 6)	CODE 00	701
EM Taloho	033012		TT C	Department of Engage	00	701
EM-Idaho Department of Energy				Department of Energy Operations Office		
Office of Environmental Mana	agement			5 Fremont Avenue		
Idaho Cleanup Project	agement			no Falls ID 83415		
1955 Fremont Avenue			Tuai	10 Talls 1D 05415		
Idaho Falls ID 83415						
8. NAME AND ADDRESS OF CONTRACTOR (No., stree	t, county, State and	ZIP Code)	(x) 9A.	AMENDMENT OF SOLICITATION NO.		
			^)			
IDAHO ENVIRONMENTAL COALITIO Attn: Brant Dotson	N LLC		QR.	DATED (SEE ITEM 11)		
600 William Northern Blvd			05.	SALS (GLE TEM TI)		
Tullahoma TN 373884729						
Tullanoma in 3/3004/29		,	X 10A	MODIFICATION OF CONTRACT/ORDER N 303321DEM000061	O.	
				304223FEM400000		
			10E	B. DATED (SEE ITEM 13)		
CODE LQ5ZLNE3EM27	FACILITY COD	E	0	9/08/2023		
	11. THIS ITE	EM ONLY APPLIES TO AN	/IENDM	ENTS OF SOLICITATIONS		
☐ The above numbered solicitation is amended as set f	orth in Item 14.	Γhe hour and date specifie	ed for re	eceipt of Offers	nded, 🗌 is n	ot extended.
Offers must acknowledge receipt of this amendment	prior to the hour a	and date specified in the se	olicitatio	on or as amended , by one of the following me	thods: (a) By c	ompleting
Items 8 and 15, and returning	pies of the amen	dment; (b) By acknowledg	ging red	eipt of this amendment on each copy of the of	fer submitted;	or (c) By
separate letter or electronic communication which inc	ludes a reference	to the solicitation and am	nendme	nt numbers. FAILURE OF YOUR ACKNOWL	EDGEMENT 1	O BE
RECEIVED AT THE PLACE DESIGNATED FOR THE	RECEIPT OF O	FFERS PRIOR TO THE H	HOUR A	ND DATE SPECIFIED MAY RESULT IN REJE	ECTION OF YO	DUR
OFFER. If by virtue of this amendment you desire to	-	-	_			
each letter or electronic communication makes refere 12. ACCOUNTING AND APPROPRIATION DATA (If req		ition and this amendment,	, and is	received prior to the opening hour and date sp	ecified.	
13. THIS ITEM ONLY APPLIES TO N	ODIFICATION O	F CONTRACTS/ORDERS	. IT MC	DIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBED IN IT	TEM 14.
A. THIS CHANGE ORDER IS ISSUED	PURSUANT TO:	(Specify authority) THE C	CHANG	ES SET FORTH IN ITEM 14 ARE MADE IN T	HE CONTRAC	Т
ONDERVIO. IN TIEM TOA.						
B. THE ABOVE NUMBERED CONTRA	CT/ORDER IS MO	ODIFIED TO REFLECT THE	HE ADI	MINISTRATIVE CHANGES (such as changes of FAR 43.103(b).	in paying office	2,
C. THIS SUPPLEMENTAL AGREEMEN			THORI	TY OF:		
$_{\rm X}$ FAR 43.103(a) Bilate	ral auth	ority				
D. OTHER (Specify type of modification	and authority)					
E. IMPORTANT: Contractor is not	x is required to	o sign this document and	return	1 copies to the issuing	g office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by U	CF section headings incli	udina si	plicitation/contract subject matter where feasib	ole )	
JEI: LQ5ZLNE3EM27	(0.94204 2)	or coolien nodalinge, more	aamig o			
~	tion is	to undato the	Di	ak Pogistors for Task O	rdor (T	J) = 3 J
The purpose of this modifica			: KI	sk Registers for lask o	raer (r	J) - 3 <b>.</b> Z <b>,</b>
TO-6.1, and $TO-7.1$ (see below)	w for de	tails).				
Payment:						
OR for Idaho						
J.S. Department of Energy						
Oak Ridge Financial Service	Center					
-	Center					
P.O. Box 6017						
Oak 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 refe	renced in Item 9 A or 10A	, as hei	etofore changed, remains unchanged and in f	ull force and e	ffect.
15A. NAME AND TITLE OF SIGNER (Type or print)				NAME AND TITLE OF CONTRACTING OFFIC		
Eric Trotta, Business Services Deputy/CFO			Mar	ianne Boline		
15D CONTRACTOR/OFFEROR		150 DATE OLONES				160 DATE CICKIED
15B. CONTRACTOR/OFFEROR  ERIC TROTTA Digitally signed by ERIC TROTTA		15C. DATE SIGNED		JNITED STATES OF AMERICA  DIANNE DOLLNE Digitally signed by MARIAN	INE BOLINE	16C. DATE SIGNED
ERIC IROTTA Digitally signed by ERIC TROTTA (Affiliate) Date: 2025.03.12 16:35:28-06'00'		3/12/2025	IVI <i>P</i>	RIANNE BOLINE Digitally signed by MARIAN Date: 2025.03.13 06:13:09 -	06'00'	
(Signature of person authorized to sign)			1 -	(Signature of Contracting Officer)		I

CONTINUATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED
89303321DEM000061/89304223FEM400000/P00074

PAGE OF 3

NAME OF OFFEROR OR CONTRACTOR

IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	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: \$716,974,059.00 Incrementally Funded Amount: \$571,575,211.00				716,974,059.00
00601	In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-3.2, Integration and Mission Continuity (see Attachments TO-3.2 DOE Transfer Risk Register Updates FY25 Q1 -Redline; TO-3.2 DOE Transfer Risk Reg Updates FY25 Q1 - Incorporated; TO-3.2 Risk Reg Updates FY25 Q1 - Redlined; and TO-3.2 Risk Reg Updates FY25 Q1-Incorporated).  All other terms and conditions remain unchanged.  Change Item 00601 to read as follows(amount shown is the total amount):  CLIN 06 SUBTASK 0601 NON-DEFENSE PROJECT (TASK ORDER 6.1)  Line item value is: \$13,449,425.00  Incrementally Funded Amount: \$11,541,151.99				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 TO-6.1 DOE Transfer Risk Register Updates FY25 Q1 - Redline; TO-6.1 DOE Transfer Risk Reg Updates FY25 Q1 - Incorporated).  All other terms and conditions remain unchanged.  Change Item 00701 to read as follows(amount shown is the total amount):  Continued				

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 89303321DEM000061/89304223FEM400000/P00074
 3
 3

NAME OF OFFEROR OR CONTRACTOR

IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
00701	CLIN 07 SUBTASK 0701 IWTU OPERATIONS (TASK ORDER 7.1) Line item value is: \$238,939,203.00 Incrementally Funded Amount: \$172,736,216.82				238,939,203.00
	In accordance with Section B.9, Basis for Changes, TOs issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Registers for TO-7.1, Integrated Waste Treatment Unit Operations (see Attachments TO-7.1 DOE Transfer Risk Register Updates FY25 Q1 - Redline; TO-7.1 DOE Transfer Risk Reg Updates FY25 Q1 - Incorporated).				
	All other terms and conditions remain unchanged.				



#### CID 89303321DEM000061/89304223FEM400000, Mod P00074 CLIN 03, Subtask 302 Task Order 3.2

TO3 Risk Register: DOE Transfer Risks

pdated: 1.29.25 Cost Impacts Schedule Impacts (in days) Handling Risk Event Risk ID WBS D.3.02.30.08 IEC POC DOE FPD Risk Title Embro, Valerie <u>Calcine:</u> Change in Definitio Risk Description
The high-level waste definition interpr Risk Type 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 interpretation path for programment of Energy (DDE) Rare Interpretation of High-Level Wasteoption, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing). The high-level waste definition interpretation may impact. High level waste definition interpretation the overall project strategy to process and dispose of cacinic waste. For example, if if end disposal combine on the proteins or all of cacine may be eligible for this disposal of cacine waste. The consequency may impact the disposal of cacine waste. CALONZERS D 2 02 20 08 nos Rare 150 or reprioritize ongoing work (e.g., retrieval demonstr and conceptual designs for calcine processing). Best Case: 80 days x 10 hrs/day x 2 FTEs x \$55.74/hr = \$89,184
Most Likely: 103 days x 10 hrs/day x 2 FTEs x \$55.74/hr = \$114,824
Worst Case:160 days x 10 hrs/day x 9 FTEs x \$102.28/hr = Department of Energy determines the Core Car Project meets the criteria of a Major Modification prior to the approval of SAR-113 Revision 2. D.1.21.30 DOE Core Car: Department of Energy determines the Core Car Project is a Maj Likely 114,824 npacts for this risk have been reduced to fit in the onstraints of the remaining time in Task Order 3 Phase 2. to DDE directs IEC to update safety basis documents to the 2014 version of DDE 370 3009 2014. "Preparation of Nonreactor Nuclear Facility Documented Safety Analysis of This would require additional funding and reallocating resources to perform the update and will clause delay to the 1994 version of DSE 570 3009). DST300 DOE Perry, Scott 2.000.000 2.600.0 100 The long-term effects of this risk are estimated to c \$20M+ and require 3,328 days worked into IEC's Acceptance re Mod P00041 See Notes for long term impacts that are based on an schedule. These numbers have been reduced to ad estimated cost and time of performing individual analyses and revising 8 IEC SARs written to DOE-STD-3009, including to a Task Order Contract, but the significant impact other work scope. any necessary subcontract labor. The best case is that writing to the 2014 version of DOE-STD-3009 would be only when required for new facilities or major modifications per DOE-STD-1189. The worst case is based on direction to write to the 2014 version regardless of the requirements in DOE-STI Costs are based on fees associated with RFA FY23 Forecast IND001b Project Wide IEC/DOE Multiple CAM Multiple FPDs Indirect Services: Mandatory Service Cos RFA provides multiple services to IFC which support our Increased Costs of Mandatory Services are Onen Threat Share Almost Certain Critical 5 2 000 000 5 4 000 000 5 6 000 000 work at the INL. Some of which IEC cannot seel alternative providers for. There is potential for unforeseen increase in cost for these mandatory services There is potential for an unforeseen increase in costs for GSA Vehicles. Best Case: No cost impacts 
Most Likely case: 524/month ± 204 Vehicles\*12 months 
Worst Case: 524/month ± 204 vehicles\*12 months 
Cost to update programs, cost to implement the program and 
Acceptance received by DOE per 
Mod 700041 rolect Wid DOE Langseth, Ross Unknown Indirect Services: General Services Administration (GSA) Vehicle Surcharge preseen cost increase is applied. Open Threat Transfer Minor 58.752 5 117.5 Increase

Baisch, Kasey RC Routines: External Requirements External Requirements are subject to change. Examples of external requirements are EXES SELE, CONIA, EPA, EFEA, And sitts and color laws. When external requirements are modified, the project may be require more being the control of the color of the color of the transition of the color of the color of the subject with additional training, update work could care, which could remain unfortnesses costs and schedule Major 250,000 192 D.3.03.32.01 D.3.03.32.02 Love 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 or acquire necessary or a Anderson, Jade Information Technology: Supply Chair Issues for Server Refresh IT001 D.6.02.32 DOE DOE FPD Open Threat Transfer Possible Serious 500,000 \$ 1,000,000 \$ 1,500,0 Best Case: 8 days (plus extended contractor fees)
Most Likely: 32 days (plus extended contractor fees)
Worst Case: 144 days (plus extended contractor fees) Acceptance received by DOE per necessary to acquire necessary equipment, appliances, hardware, and/or software. We have already experienced interruptions due to unintentional cuts and local areas breaks in filter. In most cases, it has been several days of interruptions to reroute traffic and repair. These cases have been resolved by splicit the existing filter. In the instance that there are no more vables transfer of filter in the calley, which is an eventuality value stranger. The fiber that was put in place 20 plus years ago has 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 D.6.02.4 Information Technology: Fib with aging fiber, new cable must be pulled and connected tending the outage. DOE FPD Due to emerging local, regional, and/or international events, any major supply chain issues may limit the equipment not available when needed encessary to acquire necessary materials, services, and experiences and experience of a country of the experience of the e 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 Worst Case: 32
days X 10 hrs/dy X 20 FTEs X \$75/hr DOE Reese, Craig ICDF New Cell: Supply Chain Delays and As of 9/18/2023

Note From DOE: This is an IEC risk in that it is obtaining services between contractors (IEC and E This risk must be returned to IEC. NICDE037h D 4 06 30 DOE DOE FPD Reese, Craig New ICDF Cell: BEA Support Services Do
Not Meet ICDF Scheduled Need Dates relies on BEA for support services on Milestones, BEA power services do not provide powe Open Threat Shared Unlikely Minor 240 000 2 640 000 Best Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. regulatory commitments, and scope completion. If the work from BEA is delayed, or does not meet the ost Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr orst Case: 176 days X 10 hrs./day X 20 FTEs X \$75/h quirements, it can cause a project schedule impact. IEC Response: Disagree - after re-evaluating and discussing with DOE, this will be a Shared risk with DOE/IEC. This is in response to the BEA services we can't secu This is in response to the BEA services we can't secure another contractor for. We proposed this under Phase 1 (email confirmation from Aaron Nebeler 5/13/2021 to MOOPDOORS) and the was excepted by 10/50 to be "Shared" risk. With that being said lift will add this risk to their project risk register to carry in addition to the transfer risk. We will also update the milipation action to whom "Shared" risk. We will also update the milipation action show "Shared" risk. We will also update the milipation action show "Shared risks with DOD[IEC." Not have "Shared For Aaron N, as historical proceedings (IP and EC have chared this risk (or similar proceedings (IP and EC have shared this risk (or similar proceedings (IP and EC have shared this risk (or similar procedure). isks involving BEA) on other projects. 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. Best Case: 5 days X10 hrs/day X2 crews (20 FTEs) X 575/hr. Acceptance received by D0E per 5155,000 Most Likely Case: 10 days X10 hrs/day X2 crews (20 FTEs) X 575/hr. = 5300,000 Most Case: 22 days X10 hrs/day X2 crews (20 FTEs) X 5000,000 Most Case: 22 days X10 hrs/day X2 crews (20 FTEs) X NRF Naval Reactors: Supply Chair Worst Care: 32 days X10 hrs./day X 2 crews (20 FTE) X

STS/hr. = S800.000

Best Case: the schedule is impacted by 1 month (16 working days) and changes need to be made prior to CD-1 approval.

Additional costs for 16 days x 10 hrs./day x 10 FTEs x 575/hr.

Additional costs for 16 days x 10 hrs./day x 10 FTEs x 575/hr. SNF Staging Facility: DOE CD-1 Review SNEG33 D 1 04 01 10 DOE DOE FPD Cotterell Jaksen The duration of the DOE review of CD-1 for the Staging Facility could potentially extend is longer than planned, thus pushing subsequent work scope. FIR and CD-1 Review is delayed Open Threat Likely Moderate 270 OF Most Likely Case: 2-month review delay (32 working days) and changes to CD-1 prior to approval. Additional costs for 2 days x 10 hr./day x 10 FTEs x \$75/hr. 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 CC1 package submittal preparation duration to extend beyond originally scheduled. SNF034 D.1.04.01.10 DOE DOE FPD Cotterell, Jaksen SNF Staging Facility: IEC CD-1 Submitta 1.000 Sest Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 sult schedule and forecasts with DOE ICP and H reeks @ \$80/hr and 50 000 for subcontract design + 30da CD-1 submittal date is missed, and the ID Most Likely: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 SNF-SF loses our DOE HO review reeks @ \$80/hr. and 80.000 for subcontract design + 60 intain AoA schedule and maintain status updates orst Case: 1 FTE for 4 weeks @ \$100/hr. and 1 FTE for 2 weeks @ \$80/hr, and 100,000 for subcontract design + 90 ach portion of design will need 10% of the subcontractor ast for IEC to manage.

SNF044	D.1.04.01	DOE	DOE FPDD20:O20	Cotterell, Jaksen	SNF Staging Facility: Potential Change to Safety Basis Regulatory Framework	It is determined by DOE that 10 CFR 72 is the governing 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	\$ 2,500,000	128	312	520	Revise T&FR, SOW and require the subcontractor to obtain as NRC (licensed facility.  Best Case: 8 months with a cost of \$500k  Most Likely: 1.5 years with a cost of \$1M  Worst case 2.5 years with a cost of \$2.5M	Acceptance received by DOE per Mod P00041 Work with DOE ICP to maintain DOE framework for interim staging. This applies to the casks as well as the pad. Development and acceptance of RPT-2175	
SNF325	D.1.02.36.08	DOE	Woolstenhulme, Tyson		SNF Road Ready Project: SNF Packaging Criteria	Road Ready Project: IEC develops a Data Package based upon known requirements that is not acceptable	IEC developed Data Package is rejected by CISF/Disposal Facility	Open	Threat	Transfer	Possible	Critical	4-High	\$ 3,000,000	\$ 4,500,000	\$ 6,000,000	192	288	384		Propose transfer to DOE	DOE-ID to work with DOE-HQ and other regulatory agencies to clearly define acceptance criteria for a Road Ready acceptable cask. Additionally, IEC is developing a regulatory strategy to present for our stance on Licensing for packaging, transportation, and storage of SNA.
SNF327	D.1.02.36.07	DOE/IEC	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: Delay of Delivery of DOE Standard Canisters	Any unforeseen delays to the delivery of the DOE Standard Canisters would cause delays to the project work scope.	DOE Standard Canister fabrication not completed according to IEC/BEA schedule.	Open	Threat	Share	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,000	\$ 5,000,000	96	192	288	DOESC fabrication is included in BEA's scope but being transitioned to IEC per IAG-809. IEC will need DOE concurrence to fully assume Design Authority and fabrication of DOESCs.	Acceptance received by DOE per Mod P00041	Work with BEA to identify possible delays due to supply chain issues. Also mitigating by purchasing long lead items at risk to minimize impacts to schedule.
SNF328	D.1.02.36.11	DOE	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: Lack of Funding Causes Delays in Procurement ofHigh Value Items	Lack of Funding Causes Delays in Procurement of Cask Storage System Items consisting of a Hi-Star as well as a Multi-Purpose Cannister/basket, shield liid, and spacer	Congress/DOE does not provide appropriate funding.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,500,000	\$ 3,000,000	\$ 6,000,000	96	192	84	Work with DDE to place RRDP Shipping Cask as a priority for funding to allow procurement of items as scheduled. Shippin Cask has a 2 year lead time which is critical path for the project. The costs listed from delays are based on a \$13k/day cost to operate a \$NF crew	Mod P00041	Work with DOE to place RRDP critical components as a priority for funding to allow procurement of items as scheduled.
SNF332	D.1.02.36.07	DOE	DOE FPD	Woolstenhulme, Tyson	SNF Road Ready Project: BEA Leak Testing Fails	BEA Leak testing of Welds on DOE Standard Canisters does not pass causing delays to the project.	Bell jar leak testing fails.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 1,200,000	\$ 1,800,000	\$ 3,000,000	96	192	288		Acceptance received by DOE per Mod P00041	BEA procurement of different seals to correct deficiencies to allow for successful leak testing. If alternative seals are not successful, BEA to correct design of Bell Jar.
TO3P2001	Project Wide	DOE	DOE FPD		Global: Idaho Power Rates Increase	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.		Threat		Almost Certain		3-Moderate	\$ -	\$ 132,504		0	0		Best Case: No cost increase to the project Most Ukely: 0.1 - 0.044 = 0.56 \$2,366,140.03 * 0.56 = \$132,503.84 Worst Case: 0.22 - 0.044 = 0.176 \$2,366,140.03 * 0.176 = \$416.40.65	Acceptance received by DOE per Mod P00041	
TO3P2002	Project Wide	DOE	DOE FPD	Multiple CAMs	Global: Power Infrastructure upgrade cost	Idaho Power is performing infrastructure upgrades for the Pronghorn Substation. BEA has been directed by DOE to allocate costs, of which IEC will be held responsible for a share of this cost. This presents potential unforeseen increased costs to IEC.		Emerging	Threat	Transfer	Almost Certain	Critical	S-Very High	\$ -	\$ 4,350,000	\$ 8,750,000	0	0	0	Best Case: No cost increase to the project Most Likely Case: (\$30M / 2 years) * 29% = 4,350,000 Worst Case: \$30M * 29% = 8,750,000	Acceptance received by DOE per Mod P00041	
TO3P2003	Project Wide	DOE	DOE FPD		Global: Vendor Supplied Diesel Rates Increase	There is potential of an unforeseen increase in cost for vendor supplied diesel.		Emerging	Threat	Transfer	Almost Certain	Minor	3-Moderate			\$ 416,440	0	0		Best Case: No cost increase to the project Most Likely: 0.1 - 0.044 = 0.56 \$2,366,140.03 * 0.56 = \$132,503.84 Worst Case: 0.22 - 0.044 = 0.176 \$2,366,140.03 * 0.176 = \$416,440.66	Acceptance received by DOE per Mod P00041	
TO3P2004	Multiple Projects	DOE	DOE FPD	Perry, Scott	Global: 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-570-550 with Ite. IT If EL required to implement this new revision, there may be significant changes to the current Safety sais resulting in significant cost increases and schedule delays.	of DOE-STD-5506 be implemented.	Open	Threat	Transfer	Possible	Critical	4-High	\$ 3,000,000	\$ 5,000,000	\$ 7,000,000	96	192		Cost and schedule impacts are estimated based on the cost and labor to reside the following documents: RPT-CSA-0/JRFT-TSR-03 For AM/MYP SAR-4/TSR-4 for AM/MYP SAR-4/TSR-4 for AM/MYP SAR-4/TSR-4 for AM/MYP SAR-1/SR-1/SR-103 for RH-TRU waste processing operations at MYTEC SAR-103. Addendum A for RH-TRU waste storage and handling at MTRC RL AM/MSR-1/SR-1/SR-1/SR-1/SR-1/SR-1/SR-1/SR-1/	Mod P00041	
T03P2005b	Project Wide	DOE	DOE FPD	Multiple CAMs	Global: Line-Item Project Funding	Due to the amount of line-item projects being worked at the tlaho Environmental Coalition (Exc, limitation of base scope execution may be experienced as a direct result of variability in finding, inability to sentce 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.	causes limitations that impact the	Open	Threat	Share	Almost Certain	Critical	S-Very High	\$ 1,000,000,000	\$ 1,350,000,000	\$ 1,700,000,000	900	1350	1800	Best Case: Most Likely Case:Worst Case:	Acceptance received by DOE per Mod P00041	None
TRU014R2	D.2.03.35.04	DOE	DOE FPD	Byram, George	CH-TRU Waste Disposition: Unable to Certify/Ship Waste for Disposal at Waste Isolation Pilot Plant (WIPP)			Open	Threat	Transfer	Possible	Serious	3-Moderate	\$ 50,000	\$ 500,000	\$ 1,000,000	16	48	96	Best Case: 16 day x 10 hr. x 5 FTE X\$62.5/hr. (plus additional Fee) Worst Likely: 48 days X10 hr. X 5 FTE X 562.5/hr. (plus additional Fee) Worst Case: 96 days X 10 hr. X 5 FTE X 562.5/hr. (plus additional Fee)	Acceptance received by DOE per Mod P00041	
TRU016R2	D.2.03.32.04	DOE	DOE FPD	Loftus, Nathan	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 waste, 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 fees Most Ulkely Case: 32 days plus fees Worst Case: 96 days plus fees	Acceptance received by DOE per Mod P00041	

ENTIFICANCENTAL COALITION CID 89303321DEM000061/89304223FEM400000, Mod P00074 TO3 Phase 2 Risk Register CLIN 03, Subtask 302

COALITION Idaho Cleanup Proje	•		CLIN 03 Task Or	, Subtask der 3.2	302		·												_			
Updated: 1.29.25		Responsible				T				Handling Strategy	Risk Event Likelihood				Cost Impacts			edule Impacts (in days)				
Risk ID CAL018R2	WBS D.3.02.30.13	Organization	IEC POC Kimbro, Val	DOE FPD Balsmeier, Greg	Risk Title  CalcineRET1: Loss of Specialty Resources	Risk Description  Loss of qualified specialty resources could result in schedule delays.	Trigger Event  Notification of intent to leave or retirement.	Status Realized	Risk Type Threat	Strategy Accept	Likelihood Likely	Risk Impact Major	Risk Rating 4-High	Sest Case \$ 48,000	Most Likely S 80,00	Worst Case 30 \$ 160,000	Best Case 0 48	Most Likely Worst C	Best Case: 48 days X 10 hr. X 1.25 FTE X S80/hr.	Mitigation Actions N/A	Risk Corrective Actions N/A	Notes
																			Most Likely Case: 80 days X 10 hr. X 1.25 FTE X \$80/hr. Worst Case: 80 days X 10 hr. X 2 FTE X \$100/hr.			
CAL024	D.3.05.31.04	EC	Kimbro, Val	Balsmeter, Greg	CalcinaVIII: 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	\$ 48,000	\$ 80,00	00 \$ 160,000	0 48	80 80	Cost and schedule impacts are based on the time it takes to backfill a position. Basis is estimated as follows: - Best Case -Backfill one position (48 days x 10 hr./day x 1 f	N/A	N/A	
																			x \$100/hr.)  - Most Likely Case - Backfill one position (80 days x 10 hr./d			
																			x 1 FTE x \$100/hr.)  - Worst Case - Backfill two positions (80 days x 10 hr./day x	,		
CAL030	D.3.05.31.05	EC	Kimbro, Val	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	Business relationship and resources are available at BEA that are not readily available to IEC.	Open	Opportunity	Accept	Likely	Minor	2-Low	\$ (432,000)	\$ (216,0)	30) \$ (72,000	0) (48)	(24) (8)	FTE x \$100/hr.)  Cost and schedule impacts are based on BEA supporting the	N/A	N/A	
					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 stabilished between BEA and EC. For example, BEA may have i-house specialist that could participate in a review team on documents being produced under T0.12 scoper own, such as the tisting study, treatment study reports, and the technology among work, such as the sitting study. Treatment study reports, and the technology among the study of the study study of the study of the study study of the study of the study study of the study of the study of the study of the study of the study study of the study of the study study of the study of the study study of the study of the study study of the study of the study of the study of the study of the study study of the study of the study of the study of the study study of the study of the study of the study of the study of the study study of the study of	not readily available to IEC.												scope of work and having a positive impact on the schedule. Basis is estimated as follows:			
						could participate in a review team on documents being produced under TO3.2 scope of work, such as the siting study, treatment study reports, and the technology maturation	6												- Best Case - 48 days x 10 hr./day x 4 FTE x \$225/hr Most Likely Case - 24 days x 10hr./day x 4 FTE x \$225/hr.			
CAL301	D.3.02.30.02	EC	Kimbro, Valerie	Balsmeier, Greg	Calcine: Delay finalizing the Draft 3116 Basis Document due to availability of resources		Resources (external to IEC) are not available to perform their	Open	Threat	Accept	Rare	Minor	1-Low	\$ 12,500	\$ 25,00	00 S 50,000	0 5	10 20	- Worst Case - 8 days x 10 hr./day x 4 FTE x 5225/hr.  Project realized approximately 20 days of delay in FY 2022 because resources external to IEC were unavailable. However.	N/A	N/A	
					Document due to availability of resources (external to IEC)	because of the availability of resources (external to IEC) to perform their roles in the niview of the document.	roles in the review of the Draft CSSF 3116 Basis Document.												because resources external to IEC were unavailable. However, resources are now available, and this should be considered th worst-case scenario. As such, it was assumed the project wou			
																			worst-case scenario. As such, it was assumed the project or realize 5 days of delay as the best case and 20 days as the wo case. Additionally, schedule delays realized by this activity should be categorized as moderate to low, regardless of the	ont.		
																			should be categorized as moderate to low, regardless of the cost and schedule impacts, because the decision in this			
																			document can be aligned with DOE's commitment to remove calcine from a from a bin set and close the facility.			
																			Basis for the cost and schedule impacts are as follows:			
																			- Best Case: 5 days X 10 hr/day X 2.5 FTE X \$100/hr = \$12.5K			
																			- bank Case: 5 days X 10 ht/day X 2.5 FTE X \$100/ftr = \$12.5X - Most Likely: 10 days X 10 ht/day X 2.5 FTE X \$100/ftr = \$25 - Worst Case: 20 days X 10 ht/day X 2.5 FTE X \$100/ftr = \$50			
CAL302	D.3.02.40	EC	Kimbro, Valerie	Balsmeier, Greg	Calcine: Limited or No Responses to the RFP for Online Sampline System Testing and	Not enough industry experts respond to the request for proposal for the contractor ()daho Environmental Coalition, LLC) to award a competitive bid (or multiple bids) to a subcontractor that can meet the stated objectives and desired results.	No proposals are received to execute work to the stated objectives and desired results.	Open	Threat	Accept	Unlikely	Serious	2-Low	\$ 19,000	\$ 57,0	30 S 114,000	0 16	48 96	Best Case: Schedule and Cost impacts are based off an estimated 1 month delay to extend bid period.			
					Demonstrations	subcontractor that can meet the stated objectives and desired results.													Most Likely Case: Schedule and Cost impacts are based off an			
																			estimated 3 month delay to extend bid period.			
																	1		Worst Case: Impacts have been estimated under the circumstance that off-the-shelf equipment doesn't meet crite and needs to be modified. This scenario is estimated to result	ta ta		
CAL303	D.3.02.40	EC	Kimbro, Valerie	Balsmeier, Gree	Calcine: Inadequate Information from Phase	Phase 1 work may not generate enough information to adequately eval-who the	Inadequate information is generated to adequately evaluate the	Open	Threat	Accept	Possible	Minor	2-Low	\$ 65,000	\$ 130,0	30 S 525,000	0 16	16 64	a 6 month delay.  Best Case: Schedule and Cost impacts have been estimated			Meeting with Brennan Kurth 10/29/24:
		-	.,		1 Testing and Demonstrations of the Online Sampling System	Phase 1 work may not generate enough information to adequately evaluate the viability of the online sampling equipment and allow progression to Phase 2.	Inadequate information is generated to adequately evaluate the viability of the online sampling equipment.			1					2.30,00		1		based on the scenario that the no modifications to the syster are required, the vendor simply needs to tighten parameters			Meeting with Brennan Kurth 10/29/24: Best Case is 1 month of rework, 1 vendor. Most Likely is 1 month of rework, 2 vendors
																			and reperform testing. Impacts are assumed at a 1 month del for 1 wendor.	ey .		Worst Case is 4 months of rework, 2 vendors
																	1		Most Likely Case: Schedule and Cost impacts are estimated			
																	1		based on the vendor having to perform physical modification to the system and reperforming tests. Impacts are assumed a 1 month delay for 2 vendors working concurrently.	a a		
																			Ward Core Eshabite and Cost impacts are estimated based			
																			vendor having to reperform tests with a different online sampling system. Impacts assume a 4 month delay with 2			
																			vendors working concurrently plus accruing costs for the increased time of the subcontracts.			
CAL304	D.3.02.40	IEC	Kimbro, Valerie	Balsmeier, Greg	Calcine: Limited Use of Proprietary Business	Unknown restrictions on proprietary information generated from the Phase 1 work could limit the use or sharing of information outside of the project.	Data cannot be used or shared because of proprietary	Open	Threat	Accept	Unlikely	Moderate	2-Low	s -	\$ 260,0	00 \$ 1,000,00	0 0	32 96	Best Case: Limited information would be released and			
					Data	could little the use of sharing of information durated of the project.	restrictions.												proprietary information would be vague or general in its description. This scenario creates challenge of creating a commercial application but does not accrue a Cost or Schedu			
																			impact to this proposal.			
																			Most Likely Case: Vendor does not allow IEC to share information on the equipment or use. In this scenario, IEC would have to pay the vendor to use the equipment. Impacts			
																			would have to pay the vendor to use the equipment. Impacts are based on subcontract cost for 2 vendors, and a 2 month			
																			Worst Case: Schedule and Cost impacts are estimated based			
																			IEC excelsion minimal information and being directed to			
																			recreate and self-perform testing. Assuming there is some existing work that can be reused, schedule impacts are estimated at a 6 month delay, plus cost of hiring additional			
CAL305	D.3.02.40	IEC	Kimbro, Valerie	Balsmeier, Greg	Calcine: Inability to Accept or Use Data Generated from Software Used by the	Inability of the project to accept or use data generated from any of the software used during Phase 1 by the subcontractors because it does not meet Information Technology requirements and criteria.	Software or data cannot be used by the project because it does	Open	Threat	Accept	Unlikely	Major	3-Moderate	\$ 72,000	\$ 250,0	00 \$ 500,00	10 32	96 128	Best Case: Impacts are estimated based on a 2 month delay t get software approved through the appropriate company	,		
					Subcontractor	Technology requirements and criteria.	not meet information rectrictionally requirements and criteria.												processes.			
																			Most Likely Case: Impacts are based on purchasing a softwar and having it approved through the appropriate company processes. This is estimated at a 6 month delay plus costs for			
																			processes. This is estimated at a 6 month delay plus costs for the purchase of the software.			
																			Worst Case: Impacts are based on the Most Likely Case impa	ts .		
CC007	D.1.21.30.16	IEC	Biorn, Scott	Wahnschaffe Stee	e Cree Car- Onerational Bearliness Besiew	If DOE directs IEC to perform an Operational Readiness Review in addition to a	DOE directs additional readiness activities prior to releasing	Open	Threat	Mitigate	Unlikely	Major	3-Moderate	\$ 680,000	\$ 1,030,0	30 S 2,060,000	0 64	96 208	plus the project having to hire specialty resources to opearte software. Best Case: 64 days X 10 hr. X 11.07 FTEs X \$96/hr.	Engage DOE SMEs for SAR revision, engineering analysis	N/A	
		-			e Core Car: Operational Readiness Review (ORR) is Determined to Be Required	Readiness Assessment, it would cause schedule delays to perform.	operations.					,							Most Likely: 96 days X 10 hr. X 11.07 FTEs X \$96/hr. Worst Case: 208 days X 10 hr. X 11.07 FTEs X \$96/hr.	and design, nuclear and criticality safety analysis, and operational procedure development to ensure DOE is comfortable with the design and process.		
																				comfortable with the design and process.		
CC026	D.1.21.90	EC	Biorn, Scott	Wahnschaffe, Steve	e Core Car: Core Remnants (Including Transport Equipment) Do Not Meet the WAC for	tt 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	\$ 10,000	\$ 50,00	00 \$ 70,000	0 8	16 16		N/A		
CC300	D.1.21.30	EC	Biorn, Scott	Wahnschaffe, Steve			Completion of drop/safety analysis reveals scenario(s) that result	Realized	Threat	Mitigate	Possible	Critical	4-High	\$ 5,120,000	\$ 7,000,0	00 \$ 8,000,000	0 238	309 412		Add mechanically faster to boration to ensure the core		On 2/17/23 NNL notified IEC engineering of a concern
					Determines 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.	in unacceptable risk or consequence.													can be safely moved from the RSC to the lay down system and safely processed.		that will require an alternative core handling strategy with additional engineered controls. If the core drop
																						analysis determines additional controls are required to safely remove the core from the RSC and transfer it to the laydown system, this risk will be realized. Cost and
																						schedule impacts will be dependant upon analysis results and the new strategy/controls required to move
																						the core.
CC301	D.1.21.90	EC	Biorn, Scott	Wahnschaffe, Steve	e <u>Core Car:</u> Hydrogen Levels Inside the Shippin	ng High hydrogen gas levels between the shipping shield and the RSC could indicate water inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of	Performance of shipping shield cavity hydrogen sampling after	Open	Threat	Accept	Possible	Serious	3-Moderate	\$ 374,000	\$ 534,50	00 \$ 695,000	0 8	12 16		N/A		Perform drop analysis to bound shipping shield lid
					Shield Exceed HAD Limits	inside the shipping shield. Due to potential RSC seal degradation, a hydrogen sample of the RSC will be required, potentially requiring a purge of the RSC to meet HAD	the railcar is in place at CPP-666.										1					impacts to Railcar/shipping shield/RSC prior to the arrival of the railcar.
						requirements.  (RSC sampling will require removal of the shipping shield lid.)											1					Perform revision to CSE to incorporate mitigations required by drop analysis.
						Annual of the same of the same same same same same same same sam											1					required by drop analysis.  Procure scaffolding and tent materials to be available to
CC303	D.1.21.30	EC	Biorn, Scott	Wahrschaffe, Steve	e Core Car; Integrated Testing of the Cutting Station Does Not Meet the Performance or	Failure of equipment during integrated testing of the Cutting Station at IPM.	Cutting station does not meet the performance requirements	Open	Threat	Mitigate	Unlikely	Major	3-Moderate	\$ 110,000	\$ 210,0	00 \$ 575,00	10 86	94 122		MITIGATION ACTIONS:		address this risk.
					Station Does Not Meet the Performance or Acceptance Criteria Documented in SPC-325		documented in SPC-3256.										1			MITIGATION ACTIONS: IBCO-018, Procurement of Long Lead Electrical Components submitted to expedite procurement of Servo motors, encoders, PLCs, HMI, and servo drives to		
																	1			servo motors, encoders, P.C.s, HMI, and servo drives to allow early bench testing. Bench testing will decrease risk and early procurement of spares will allow		
																	1			expedited repair if needed.		
																				MITIGATION ACTIVITY STATUS:		
																	1			IRCO-018 has been submitted and processed to address the procurement of long lead electrical and mechanical components.		
																	1					
00304	D.1.21.30	EC	Biorn, Scott	Wahnschaffe, Show	e Core Car: Failure of Cutting Station	Failure of mechanical or electrical equipment during integrated testing of the Cutting	Component fails or is damaged during integrated testing at IDM	Open	Threat	Mitigate	Possible	Serious	3-Moderate	\$ 50,000	\$ 150,0	00 S 325,00	10 12	48 103		MITISATION ACTIONS:		
			and the second		Components During Integrated Testing at IPM	Passer of mechanical or electrical equipment ouring integrated outing of the Cutting Station requires replacement or repair before testing can be completed at IPM.									. 230,0	225,00	1	103		MITIGATION ACTIONS: IRCO-013, Procurement of Long Lead Precision Mechanical		
																	1			Components submitted to expedite procurement of lead snaws trurks and hall snaw assembly		
																	1			replacements. Early procurement of spares will allow expedited repair if needed at IPM. MITIGATION ACTIVITY STATUS:		
																	1					
CERCLA001	D.4.05.30.09	IEC	Whitmore, Erik	Jenkins, Tally	CERCLA: Evaporation Pond Liner Damage	Existing CERCLA Evaporation liner tears which would require subcontractor support to complete repairs.	Existing liner is damaged.	Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 62,532	\$ 312,65	58 5 468,98	7 0	0 0	No schedule delays as all other work associated would continue while repairs are done.	renlarement removements 12/11/24 we Allocation for repairs for material failure of the pond linear, similar to currently existing situation	N/A	
																	1					
KDF001	D.4.05.31.03	IEC	Orme, Jason	Jenkins, Tally	ICDF Ops and Maintenance: Equipment Failure	replacement. This equipment includes but is not limited to: road graders, excaytors.	Failure of any equipment (i.e. road graders, excavtors, front end loaders, diesel fuel trailer, water trucks, hook trucks,	Open	Threat	Accept	Likely	Serious	4-High	\$ 67,240	\$ 341,00	00 \$ 511,000	30	60 90	Equipment Costs per DCES sheet / Lease Rates for Equipment Total \$81,845 - 20% Equipment Potential Failures - Daily Rate	N/A	N/A	
						front end loaders, diesel fuel trailer, water trucks, hook trucks, blehandlers, pumps, liners, Digital Control System Equipment, and Waste processor.	telehandlers, pumps, liners, Digital Control System Equipment, and Waste processor) necessary to perform operations.										1		20% Higher than Monthly Rates / ICDF Contamination Zone Risk of Leased Equipment - Lease to Buy / Work Case would b			
ICDF002	D.4.05.31.03	IEC	Orme, Jason	Jenkins, Tally	KOF Ops and Maintenance: Treatment,	Treatment Storage and Disposal Facility (TSDF) is unable to receive waste	TSDF discontinues receiving of waste.	Open	Threat	Mitigate	Likely	Minor	2-Low	\$ 79,200	\$ 118,80	00 \$ 158,400	0 8	12 16	the D9N Dozer Lease 533.000  Best Case: 8 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT =	Implement the following possible mitigations: - Upon	N/A	
					age, and onyonal nacinty (1501) Closure	transportation of that waste will be delayed. It may then become necessary for the project to incorporate actions to recover schedule.											1		Most Likely Case: 12 days x 10 hr./day x 6 FTEs X (\$110/hr. + OT = \$165/hr.)	TSDF resuming operations, shipment(s) will commence and schedule will be recovered by working overtime.		
																	1		Worst Case: 16 days x 10 hr./day x 6 FTEs X (\$110/hr.+ OT = \$165/hr.)			
																			T '			

dated: 1.29.25 Status Risk Type Strategy Likelihood Risk Impact Risk Rating DOE FPO Risk Title Risk Total Risk Total Risk Description

Jenkins, Tally YCO One and Maintenance, Waste Container

Treatment, Storage and Disposal Facility
(ISSO) Certification Facility WBS Organization IEC POC DOE FPD Best Case Most Likely Worst Case Best Case Most Likely Worst Case Mitigation Actions Risk Corrective Actions Risk ID Trigger Event ment of linguists.

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| \$112.05/th/\$ | \$4/4 yet 1814 (57)/th IND001a Project Wide IEC/DOE Multiple FPDs Indirect Services: Mandatory Service Cost Open Threat Critical 6.000.00 which IC carnot use a hemation provides for. There is potential for unforward more as an exist of the manifoline varieties. EAA has not for the decision to terminal the manifoline varieties. EAA has not for the decision to terminal the STANA (Privilege Rescota and Indibutionation for the state of the K.103.08 Threat This risk was part of the original proposal (see Mod P00006) and had been missed on being incorporates into the master file. Best Case: Lose 1 person Most Likely: Lose 12 people Worst Case: Lose 30 people at approximately \$100k/person C. employs various disciplines. Then is presented of not large disk to adequately food course guarded consequence development of great has included career field. If ICL countries development of present of several has included career field. If ICL countries to adequate from these many present personnels were supersonal several personnel seeking more undersomed cores. There is a date for an all several as influence state of finest several personnel seeking more undersomed cores. There is a date for a storage of finest several personnels are several sever Minor Cooper, Brandy Walker, Schyler Global: Approval of Business System Threat This risk was part of the original proposal (see Mod P00006) and had been missed on being incorporated into the master file. Best Case: they only require a dispose of current inventory of spares/Mot Likely, require disposal of current spares and spare that come from current projects such as APP. Whort Case require disposal of current spares and spares that come from current projects such as APP. Additionally there would be dem on some buildings as there would be removal in some Open Critical stored instruments can no longer be used for spare parts, they become wiste and nequire a hazardous disposal path due to lead and other metals used. If the project directed to dispose of the spare instruments under strict disposal timelines, the Renevitz, Joe INTEC BOP: Transformer Failure Turnichmen. MAT L COST 2000 L MADR COST 96 days x 12 May 8 T MT S COST 2000 L MADR COST 96 days x 12 May 8 T MT S COST 2000 L MADR COST 96 days x 12 May 10 D.3.03.38.09 Renevitz, Joe

NIEC Distributed Central System Liopzade:
DCS electronics failure

DCS electronics failure

NEED COS electronic Space from the event of a system failure. Parts for the currently operated system are not readily available as it is no ordisted system. Failure of the INTEC ECS which stops the fire panel conversion work progress and testing D.3.03.39.02 Emergency Communication System Alt #1:
ECS wireless system failure causes the work to be stopped-and impacts the accomplishment of the fire panel conversion process. Kelly, Patrick Open Threat Unlikely 100/hr = 180,000 Wo - 90d x 10h/d x 3fte x 100/hr Required BEA reprograming at the Central Fire Station for each ECS panel conversion not completed in a timely manner. Open INTEC060R2 INTEC068R2 D.3.03.3C.02 Open 100,000 400,0 Used maintenance costs and lead time on parts for the Most Likely case and then adjusted 25% both ways to arrive at the Worst Caie and Best Care values. Purchaise new fiber optic \$10,000 Labor to Install Days X10 <del>Libely</del> Possible Breeds, the <u>Date Wild From Control Frent's Laptor</u> Piter Convert filter optic is old and may not be compatible for system upgrades. The entire <u>State Operation Frent's Frent</u> During installation process it is found that the current fiber optic I will not be adequate to support the new upgrades. In Vendor fabrication and bench test CPP-606 control panel, CPP-1642 & 1643 control panel installs. INTEC156 D.3.03.30.13 Open Threat 82,000 120,000 INTEC162 D.3.03.30.13 150,000 Most Likely Case: 10 days X10 hrs./day X 2 crews (20 FTEs) X 575/hr. = \$300,000 Worst Case: 32 days X10 hrs./day X 2 crews (20 FTEs) X 575/hr. D.3.03.32.01 D.3.03.32.02 Renevitz, Joe BOP 9M: Failure to Follow Process Steps in the event that the project experiences a major noncompliance issue, it could result in additional resources required, changes to work control, additional training required, Threat Likely Major in additional innovation required, frequires to work controls, disclosured training required,

Control control of larges required, and control of larges required from the control of larges required from the control of larges required from the control of larges and the control of larges of larges and the control of larges of larges control of larges and turn of larges southernoons equired from the case control of larges and turn of larges and larges of larges and turn of larges and larges la INTEC215 Deen Well Dump Control Panel: Bettrical

New panels with a higher rating would require power upgrades to be installed such
new breakers or sainets.

Deep Well Pump Cander Jamel: Engineering
Resource Availability During Design
support this project, causing a schedule delay and additional costs. Threat Labor days X 10 hr. X 6 FTE X 575/hr.
Procure subcontractor services to provide design details for D.3.03.30.13 Threat Race Minor 20.000 INTEC216 Open 40.000 Intergency Communication System AR 31:

Design from subconstactor does not conform with field conditions requiring additional search conditions in the subconstactor does not conform with field conditions requiring additional search conditions for diseases to be able to move forward with the work.

The conformation of the conformation of the subconstant INTEC302 175,000 230,000 try to remain on too of the issue. Vulnerabilities previously paid a company about \$60,000 per box for disposal. To account for inflation the costs will be set at \$70,000 per box. Best case is 1 box. Most likely is 2 boxes. Worst case is 4 boxes. Time is set at two weeks to coordinate sending the boxes to an off-site facility to be processed. D.3.03.36.03 Receits, Jos 

SS lagardes, Nerfacer procurement lisses in sendour could have long field times casing schedule impacts for implementation. 
Interface could have long field times casing schedule impacts for implementation. 
Interface could have be impacted to time of field into books casing schedule impacts. 
Interface could have be impacted to time of field into books casing schedule impacts in 
SS characters of field into books case of field into the cas INTEC307 D.3.03.38.09 Klukis, Venita Threat Possible Major INTEC308 D.3.03.38.09 Major 1,000 of a LC took singuict and minimal between a proper was set in Most Likely 6 months for someone who needs the full time of STD. Cost impacts are minimal since the project will be on ho until personnel return. Whent case: 6 months so hire and train a replacement. Cost impacts are minimal since the project will be on hold until necessarial base benefitied. INTEC309 D.3.03.38.09 Remevitz, Joe and Comment system design has a unknown aspects and commentation which could cause the project to encounter unknown aspects conditions during investigation, installation, and feeting Open Threat Accept Possible Minor 10,000 5 20,000 Best Case: Possible bugs that need to be addressed causing the schedule to move 2 weeks and minimal costs incurred. Most Likely: Engineering requires 1 month to address issues along with purchasing new equipment. Worst Case: The new system is not viable causing an entire reduction. INTEC310 D.3.03.38.09 Remoits, Joe OCS Upgrades: Testing after installation is not. After the installation of the software and hardware, during testing, it is discovered the successful successful successful. Minor Klukis, Venita Threat Unlikely 50,000 D.3.03.38.09 redeisars.

Best case: engineering requires 1 month to purchase softwa or hardware to create a bridge to equipment Most Likely: three months with software and hardware INTEC311 Klukis, Venita Renevitz, Joe 625 (benedes: incompatabilities with other field equipment does not function after installation of new field equipment (IO, VFDs, etc.) are not compatible and do not function properly. Open Threat Accept Possible Serious Reveils, Joe SC Signatus. Enforces development and deliberar development for an good replace could grow to be more complicated than employee shows been anticipated or growing placed leading to seditional man brours and schedule changes that will date the operat.

Persents, Joe SC 25-26 To Bischindowness Lost or Use of employee quarter during slipping. estimates only and could vary. 'Worst case is based off of replacing the entire ass Renevitz, Joe CPP-603 Pall Refurbishment: Lost or damaged equipment during shipping. Accept INTEC313 D.3.03.3C.02 Klukis, Venita Open Threat Rare Critical 330,000 660,000 1.000.00 366 PAIL. Most likely and best case are broken down by 1/3 of ML. Long lead times from Pail.

\*Note these lead times may extend out past the Task Order time constraints." Renevitz, see MYTU Vulnerabilities: Damage to the Crane transcription of the vital nature of the crane to this project scope any unforseen damage to the Damage to crane crane could significantly impact out schedule. INTEC314 Klukis, Venita Realized Threat Accept Almost Certain Major 50,000 100,000 250,00 Signal strength test comes back lower than adequate. D.3.03.38.04 EC Renevitz, Joe INTEC Cell Phone Coverage: Insufficient signal Insufficient signal strength may require relocate external antennas. INTEC315 Kelly, Patrick Realized Threat Accept Likely Serious 100,000 129,000 5 48 64 The filter bank maintenance cannot be performed because of accessibility, ALARA, or other equipment issues forting engineering to redesign the door discuss of other equipment issues for increasing engineering to redesign the door discuss of other equipment issues for increasing engineering to redesign the door discuss of other equipment issues factor, unique for maintenance. INTEC317 Rane D.3.03.36.02 15,000 30,000 45,00 Remetitz, los <u>Subholine Registerment</u> Material delivery to subcontractor delays delivery of mobiler to Material advisory to subcontractor delays delivery of mobiler to MIZE to be delayed. D.3.04.31.06 Threat Serious Open Possible Work is being performed by Premier and impacts are inferred.

Premier will be fabricating a sample for them to protopy the top the opening for them to protopy the tobe expansion to ensure they're appositing would occur if nik were to be realized.

The protopy the tobe expansion to ensure they're appositing would occur if nik were to be realized. INTEC322 D.3.04.31.07 White, Terry Renevitz, Joe Rabolier Raplacement: Fabrication Abnormalities Emerging Threat Minor 15,000

COALITION	t Programmatic Risk	. Register																			
Updated: 1.29.25	grammatic Kisk	Responsible			I			, ,	Handline	Risk Event				Cost Impacts			le Impacts (in days)	1	T		
Risk ID ITOOS		Responsible Organization	IEC POC	DOE FPD	Risk Title	Risk Description   Trigger Event   Unforeseen structural issues would require involving our facilities and the schedule is   A sizeable structural concern is discovered.		Risk Type		Likelihood	Risk Impact Critical	Risk Rating	Best Case	Most Likely	Worst Case \$ 1,920,000		Most Likely Worst Case	Basis of Impacts  Best Case: 40 days x 10 hrs/day x 4 FTEs x \$200/hr = \$320,000	Mitigation Actions	Risk Corrective Actions	Notes
rreas	D.6.02.34, D.6.02.36, D.6.03.33	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Unforeseen Structural Issues During Operations	Unbrowsien structural issues wooder requires innovine gar lactifies and the schedule is A standard solvent of the schedule in air sid of being pointed to their terminist. The expectation is interministructural issues, a sizuable structural concern wit cause delays, possible engineering contractors, structural controllers, electriciars, and encreade costs.	Open	Threat	Accept	Unlikely	Critical	3-Moderate	\$ 320,000 S	960,000	\$ 1,920,000	40	120 240	Best Cise: 40 days x 10 hrs/day x 4 FTEs x \$200/hr = \$320,000 Most Likely: 120 days x 10 hrs/day x 4 FTEs x \$200/hr = \$360,000 Worst Cise: 240 days x 10 hrs/day x 4 FTEs x \$200/hr =	N/A		
<u>                                     </u>							1											\$1,920,000			
mozo	D.6.02. K.1.02.04	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Software Upgrades	Scheduling testing for software upgrades (ARI risk assessments for Cyber and IT) - Discovery of derogatory information. Descovery information discovered during risk assessment, or software untereabilities discovered render software or hardware islem unife for use at ICP.	Open	Threat	Mitigate	Unlikely	Minor	2-Law	\$ 18,000 \$	72,000	\$ 288,000	4	16 64	Best Case: 4 days x 10 hr./day x 2 FTEs x \$225/hr.= \$18,000 Most Likely: 16 days x 10 hr./day x 2 FTEs x \$225/hr.= \$72,000 Worst Case: 64 days x 10 hr./day x 2 FTEs x \$225/hr.=	Perform preliminary assessment to locate any vulnerabilities and adjust coding as necessary.	N/A	
																		\$288,000			
П012	D.6.03.32.01	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Sourcing Hardware	needed may be discontinued by the manufacturer. Cannot locate items that are of	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.=	N/A	N/A	
						limited supply.												\$576,000 Worst Case: 144 days x 10 hr./day x 4 FTEs x \$225/hr.~ \$1,296,000			
M013	D.6.02.38,39,41	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: Unforeseen	Unforeseen technical issues or major failures can impact the planned schedule, e.g.,  Technical issues or major failures occur.	Open	Threat	Accept	Possible	Critical	4-High	\$ 288,000 \$	864,000	\$ 1,728,000	36	108 216	Best Case: 36days x 10 hr./day x 4 FTEs x \$200/hr \$288,000	N/A	N/A	
	D.6.03.32 D.6.03.33 D.6.02.34 D.6.02.35.01				Technical Issues	ranscenware.												Most Likely: 108 days x 10 hr./day x 4 FTEs x \$200/hr \$864,000 Worst Case: 216days x 10 hr./day x 4 FTEs x \$200/hr			
	D.6.02.35.01																	\$1,728,000			
IT307	K.1.02.04	IEC	Anderson, Jade	O'Malley, Russell	Information Technology: New VMWare pricing structure not budgeted in FY25.	VM/Ware is changing to a per-CPU-Core pricing model. Currently, we are paying \$80X for a 3-year license, which expires this year. If we do nothing, the new license will be	Emerging	Threat	Mitigate	Almost Certain	Moderate	4-High	\$ 80,000 S	340,000	\$ 500,000	۰	0 0	VMWare is changing to a per-CPU-Core pricing model. Currently, we are paying \$80K for a 3-year license, which	Changing our Virtual Machine infrastructure. Exploring other VM products.		
17309	D.2.05.30.20	EC	Anderson, Jade	O'Malley, Russell	Information Technology: End of Life	\$500K yearly. If is currently looking at changes and could possibly get this cost down	Emerging	Threat	Mitigate	Rare	Critical	3-Moderate	\$ 1,000,000 \$	2,000,000	\$ 3,000,000	120	360 720	expires this year. If we do nothing, the new license will be	IEC pays for a support contract from a 3rd party if the		
					Software	In SIGNATURE THAT IS A CONTROLLED AND A												3500K relativ. 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.	software can be fixed. This contract is a limited support contract that only covers software defects and licensing.	t	
IT310	D.2.05.30.20	EC	Anderson, Jade	O'Malley, Russell	Information Technology: Waste Tracking	The Waste Tracking System (WTS) is an Oncide forms of application. Oracle forms 6i considered an ome of-life system and is no longer compatible with ourset databases.	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	The WTS application is protected through many		
					System Failure	considered an end-of-life system and is no longer compatible with current databases. In this means it cannot be patched for cybensecurity purposes. This it seaves the forms and database at risk of attack as they are stagnant with no alternative to move forward.												been in need of an upgrade for many years. Forms 6i has been end-of-life since 2008 but has been compatible with the Oracle databases up until Oracle 12c. which became end-of-life in	network mitigations.		
																		2022. Upgrading the system to a platform that is current and able to be patched for vulnerabilities will cost a large amount o money and take a considerable amount of time.	a a		
IT311	K.1.02.04	EC	Anderson, Jade	O'Malley, Russell	Information Technology: Cyber	Cyber Vulnerabilities create an attack vector for hackers to penetrate the network.  A hacker is able to penetrate the network.	Open	Threat	Mitigate	Rare	Moderate	1-Low	\$ 1 \$	500,000	\$ 10,000,000	0	14 180		There are many strategies. The first strategy is to patch		
					Vulnerabilities	Opber Violenzibilities create an attack vector for backets to presentate the network.  A hacker is able to penetrate the network. After penetrating the network of network penetrating to network of penetrating the network of penetration of delete or destroy information.													There are many strategies. The first strategy is to patch the vulnerable network item. The second is to employ configuration that removes the attack vector. The third is to place the item bahind firewalls to protect them.		
																		addressed, they can lead to a wide range of negative consequences, including data theft, ransomware attacks, and	These strategies are employed daily by the IT staff.		
																		even complete network destruction.  Best case: attack is thwarted, no impact  Mart block case: Attacker is able to breach an attack condition.			
																		in data theft or ransomware. Worst Case: Attacker is a Cyber terrorist, resulting in			
LEG003R2	K.1.01.05	EC	Coletti, Sean	Unknown	Legal: General Labor and Arbitration	The possibility of diverging resources or obtaining outside counsel to assist with unforeseen arbitrations involving General Employment and Labor Relations matters.  A grievance is filed requesting for arbitration.	Open	Threat	Accept	Possible	Moderate	2-Low	S 25,000 S	50,000	75000	15	30 6	destruction of the network  Each arbitration is estimated to cost approximately \$25K. The most likely occurrence to happen under the IEC contract is			
LEG001R2	K.1.01.05	EC	Coletti, Sean	Unknown	<u>Legal:</u> Miscellaneous Litigation	fi.e. pensions, employee health, and welfare plans).  Potential for an unanticipated lawsuit which, would require resources to be allocated. New Lawsuit is filed against EC.	Open	Threat	Accept	Possible	Moderate	2-Low	S 25,000 S	50,000	100000	15	30 6	roughly two.  10 No Schedule Delay. Costs represent initial responses.			
LEG002#2	K.1.01.05	EC	Coletti, Sean	Unknown	Legal: General Litigation	for the initial answer and planning of the lawarut.  Any arising leavant against EC regarding Government contracts, environmental matters, and employment law that would require appropriate resources for Ingation.	Open	Threat	Accept	Possible	Moderate	2-Low	S 25,000 S	50,000	100000	15	30 6	IO No Schedule Delay. Costs represent initial responses.			
NICDF020	D.4.06.37.05	EC	Reese, Craig	N/A	New ICDF Cell Definition: Excavation Uncovers Unanticipated Materials	While doing excavation there is a chance of unforeseen circumstances (i.e., rad contamination) to occur that can cause a delay in the schedule or a need to assess a Un-identified utilities,	Open	Threat	Accept	Rane	Minor	1-Low	\$ 30,000 \$	75,000	\$ 1,200,000	2	5 80	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	
				March 1		new path forward. Rad contamination Archaeology artifacts					L							Worst Case: 80 days X 10 hr./day X 20 FTEs X \$75/hr.	2012		
NICDF027	D.4.06.39.01	RC .	Reese, Craig		PM Support - KDF Industrial Incident Resulting in Shutdown	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.  An unanticipated accident resulting in injury or near miss.	Open	Threat	Accept	Rare	Minor	1-Low	\$ 30,000 S	75,000		2	5 96	Best Case: 2 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Worst Case: 96 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	
NICDF030R2	D.4.06.37.05	IEC	Reese, Craig	Almahie, Amin	New ICDF Cell: Overtime Required	To maintain project schedule, overtime is required to maintain or recover project schedule. Yechnical or installation issues cause schedule delays require overtime recover or maintain project schedule.	Open	Threat	Accept	Possible	Moderate	2-Low	\$ 144,000 \$	288,000	\$ 432,000	16	32 48	Best Case: 16 days X 1 hr /day X 120 FTEs X \$75/hr. Most Likely Case: 32 days X 1 hr /day X 120 FTEs X \$75/hr. Worst Case: 48 days X 1 hr /day X 120 FTEs X \$75/hr.	N/A	N/A	
NICDF033	D.4.06.37.05	IEC	Reese, Craig	Almahie, Amin	PM Support - ICDF: Weather Delays	Cold/wet weather in the spring and fall prevent construction of the cell and evaporation ponds.  Spring and fall weather prevent construction work at the site.	Open	Threat	Accept	Possible	Minor	2-Law	\$ 75,000 S	225,000	\$ 675,000	5	15 45	Best Case: 5 days X 10 hr./day X 20 FTEs X \$75/hr. Most Likely Case: 15 days X 10 hr./day X 20 FTEs X \$75/hr.	N/A	N/A	
NICDF037a	D.4.06.30	IEC	Reese, Craig	Almahie, Amin	New ICDF Cell: BEA Support Services Do Not Meet ICDF Scheduled Need Dates	EC relies on BEA for support services on Milestone, regulatory commitments, and BEA power services do not provide power in a timely manner. scope completion. If the work from EEA is delayed, or does not meet the requirements,	Open	Threat	Shared	Unlikely	Minor	2-Low	\$ 60,000 \$	240,000	\$ 2,640,000	4	16 176	Worst Case: 45 days X 10 hr./day X 20 FTEs X \$75/hr. Best Case: 4 days X 10 hrs./day X 20 FTEs X \$75/hr. Most Likely Case: 16 days X 10 hrs./day X 20 FTEs X \$75/hr.	Propose Shared to DOE	N/A	
NICDF303	D.4.06.37	IEC	Reese, Craig	Almahie, Amin	NEW ICDF Cell: Subcontractor / Lower Tier	It can cause a project schedule impact.  Project's estimated durations could differ from the actual time it takes the Subcontractor schedule is different than proposed baseline.	Realized	Threat	Accept	Possible	Minor	2-Low	\$ 30,000 \$	60,000	\$ 300,000	2	4 20	MOST LIRRY CARE: 10 days X 10 hrs./day X 20 FES X 575/hr.  Worst Care: 176 days X 10 hrs./day X 20 FES X 575/hr.  Best Care: 2 days X 10 hr./day X 20 FES X 575/hr.  Most Likely Care: 4 days X 10 hr./day X 20 FES X 575/hr.	N/A		
NRFDDGG8R2	0.5.01.320.5.01.3	IEC	Burtenshaw, Shawna	Larsen, Eric	Contractor Schedule Does Not Align With IEC Baseline Schedule NRF Naval Reactors: Loss of Contamination	subcontractor to perform the site prep, and excavation, which will result in schedule schedule.  delays and subcesses costs.  Loss of contamination costrol (outside D&D boundaries) during demolition may result. An unanticipated event driven by discovery of contamination.	Open	Threat	Accept	Unlikely	Moderate	2-Low	\$ 100,000 \$	500,000	\$ 1,000,000	10	24 32	Worst Case: 20 days X 10 hr./day X 20 FTEs X 575/hr. Impacts are estimated based on loss of contamination requiring	g N/A		
	0.200.5.01.30.21				Control	in personnel contamination and/or extended shutdown for recovery.  outside of the boundary, possibly portable air monitor.								,	,,,,,,,,,,,		_	a step back and recovery planning, additional surveys and PPE, and execution to recover the area.			
NRFDD009	D.5.01.32	EC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: NRF West Gate Access	The West extrace for NRF using gate 4 has Limited ingress/egress for the heavy equipment and waste loads ingressing or egressing from NRF through gate 4 will have a load limit no greater than	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	N/A		
NRFDD010	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: A1W Turnover Delayed	13' in height that will require an alternate route or complicated. This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule with a phased approach to turnouse and This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based off an FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP schedule This work scope is based of a FOP scope is	Open	Threat	Accept	Rane	Minor	14aw	\$ 21,000 \$	42,000	\$ 84,000	4	8 16	X10 hrs/dy X 7 FTEs X \$75/hr  Best Case: 4 days X 10 hrs/day X 7 FTEs X \$75/hr. Most Likely	N/A		
						Transfer another ALW disclibes to the Starting June 2, 2023. If the transfer does not happen as scheduled there is a risk of schedule and associated cost delays until section 1.							/	,				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.			
NRFDD011	D.5.01.32	EC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Personnel Attrition	turnioser is cornelated. Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule	Open	Threat	Accept	Rane	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	N/A		
NRFDD012	D.5.01.32	IEC	Burtenshaw, Shawna	Larsen, Eric	NRF Naval Reactors: Industrial Incidents	delays.	Open	Threat	Accept	Rare	Critical	3-Moderate	\$ 750,000 \$	1,500,000	\$ 3,000,000	100	180 204	\$75/hr = 225,000Worst Case: 30 days X10 hrs/dy X 15 FTEs X \$75/hr = \$337.500 Best Case: 100 days x 10 hrs./day x 8 people x \$93/hr. =	N/A		
					Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended of an unanticipated accident resulting in injury or near miss. Shutdown to resolve conduct of operations issues.	"											\$750,000 Most Likely: 180 days x 10 hrs./day x 8 people x \$93/hr. = \$1,500,000 Worst Case: 204 days x 10 hrs./day x 8 people x \$93/hr. =			
RHTRU001R2	D.2.04.30.14	IEC	Troescher, Pat	Mitchell, Jason	RH-TRU Waste Disposition: Achieving	Achievement of the PY24 of processing 10 Lot 11 containers and the PY25 of Critical failure of facility support equipment and lack of funding processing 10 Lot 11 containers, due to critical failure of equipment, impacts the Idahol specific to:	Open	Threat	Accept	Unlikely	Moderate	2-Low	\$ 200,000 S	300,000	\$ 600,000	16	32 64	Worst Case: 204 days x 10 hrs./day x 8 people x \$93/hr. = \$3.000.000  Costs are based on fees associated with missed delivery dates.	N/A	Actions include:	
					FY24/25 Processing Lot 11 Containers Due to Critical Failure of Equipment	processing 10 Lot 11 containers, due to critical failure of equipment, impacts the Idaho Settlement Agreement (\$54) and Delay to site treatment plan schridzled agreement with DEQ to have all the 517 water cut of the 514xe of Idaho.  1. Procure manipulators 2. Procure manipulators 3. Procure manipulators 4. Procure manipulators 4. Procure manipulators 5. Procure manipulators 6. Procure manipulators 7. Procure manipulators 8. Procure manipulators 9. Procure ma												Best Case: 16 days down time X 20 FTEs X \$41.50/hr. X 10hr. = \$132.800 + fee		Actions include:  The MSM critical spare parts for the Models FX, F, and G is based on current critical spare parts inventory, consuments on of critical spaces, and lead time to receive	
						2. Unigpt, procure, and modify russ in-cell crane from analog tights.	1											Most Likely: 32 days down time x 20 FTES X \$41.50/hr. X 10hr. = \$265.600 + fee		consumption of critical spares, and lead time to receive replacement parts from the vendor. The system engineer supporting the project tracks and maintains	
																		Worst Case: 64 days down time x 20 FTES X \$41.50/hr. X 10hr. = \$531,200 + fee		engineer supporting the project tracks and maintains the inventory for the critical MSM and some Palt spare parts currently installed in the CPP-666 FDP and CREEGO MSM/FI has cold. A grow bulk to be secondal unit	
																				parts currently installed in the CPP-666 FDP and CPP659 NWCF hot cells. A new Paft tube assembly was procured and installed in the CPP-666 Hot cell. • Monthly and annual PM's are performed on the Paft's	
																				in both CPP-659 and CPP-666.	
																				onliand facility cranes for both CPP-659 and CPP-656.  There are spare electrical components (i.e., circuit boards, fuses, and relays) for the in cell and facility	
																				cranes.  Semi-annual, Annual, and S-year PM's are performed	
																				on the elevator in both facilities.  A complete CPP-659 Paft entire assembly has been procured and has been received.	
																				However, these steps do not entirely mitigate the	
																				equipment failure risk and the risk is DOE owned since they plan to provide funding for procurement of manipulators and upgrades to the FDP in cell crane	
							L													from analog to digital.  Make DOE aware of the risk of not funding	
RHTRU002R2	D.2.04.30.14	IEC	Troescher, Pat	Mitchell, Jason	RH-TRU Waste Disposition: Achieving PY24/25 Milestones for Processing Lot 11 Containers Due to Complex Geometries	Achievement of the PY25 milestone of processing 10 Lot 11 containers, due to inability to treat sodium in waste with complex geometries containing sodium or waste containing to treat sodium in waste with complex geometries, impacts the Idaho Settlement significant quantities (>100g) of NaK are found in repackaging the Containing to the Idaho Settlement of the Idah	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.	N/A	Methods used to size Lot 6 waste components will be used for the Lot 11 waste components. Complex appropriate to the lot 12 waste components.	
					Consumers Due to Complex Geometries	Agreement (ISA) and Delay to site treatment plan scheduled agreement with DEQ to Lot 11 waste. have all the STP waste out of the State of Idaho.												Best Case: 8 days down time X 5 FTEs X \$41.50/hr. X 10hr. = \$16,600		geometries may still result in not being able to complete treatment by water or air methods and would require distillation. The Sodium Distillation	
																		Most Likely: 16 days down time x 5 FTES X \$41.50/hr. X 10hr. = \$33,200		System is required to remove sodium from complex geometries.	
																		Worst Case: 32 days down time x 5 FTES X \$41.50/hr. X 10hr. = \$66,400		Lot 11 containers chosen for treatment are evaluated for any documentation referencing NaK. A small	
																				population of waste components (i.e., Transducers) were found that water treatment was not viable and could only be distilled or sent off site for treatment and	
																				disposal. If any waste components that are found or	
																				treated, then the components will be stored until an operations time slot is available to perform distillation.	
RHTRU003	D.2.04.30.14	IEC	Troescher, Pat	Mitchell, Jason	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.	Open	Threat	Mitigate	Possible	Minor	2-Low	\$ 24,900 \$	49,800	\$ 97,600	2	4 8	Best Case: 2 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT = \$24,500	coduce further echadula intercuptions		
																		Most Likely: 4days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT- \$49,800 Worst Case: 8 days OT X 20 FTEs X \$41.50/hr. X 10hr. X 1.5 OT			
SNF00782	D.1.02.32.31	IEC	Elloworth, Carla	Wahnschaffe, Steve	Advanced Test Reactor (ATR) SNF Receipt CPP-603 PaR Manipulator Malfunction	ATT-Cirect: Transfers are delayed because of a malfunctioning CPP-603 Palt manipulator (MAN-GST-401), certain Pall motions appear to be or are	Open	Threat	Accept	Likely	Minor	2-Low	\$ 107,016 \$	214,032	\$ 535,080	7	14 35	= \$97,600 Best Case: 7 days X 12 hr. X 13 FTEs X \$98/hr. Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr.	N/A	Maintain the PAR. Work with BEA to reschedule ATR	
						abnormal/malfunctioning. Failure of the manipulators results in schedule delens												Worst Case: 35 days X 12 hr. X 13 FTEs X 598/hr.		менерия.	
SNF008R2	0.1.02.32.31	IEC	Elloworth, Carla	Wahnschaffe, Steve	Advanced Test Reactor (ATR) SNF Receipt Camera Failures Due to High Radiation Fields	ATR-Direct: High rad fields in the cave cause premature failure of the cameras in the CPP-603 feel handling cave.	Open	Threat	Mitigate	Likely	Minor	2-Low	\$ 45,864 \$	214,032	\$ 428,064	3	14 28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	In the majority of instances, alternative cameras can be utilized to allow the continuation of operations. Perform camera replacement analysis.	l N/A	
SNF00982	D1023402	160	Johnson, Walter	Michael W. C.	COD TABLIA COMMISSION TO THE COMMISSION OF THE C	CPP-749 Remediation: Project activities are delawed because of channing CPP-749  Requirements derived from planned security related vulnerability		Y6	A	Possible	Minor		S 45.864 S	214.032	\$ 428,064		u	Boar Com Status VII by VII STEV VIII by	-Purchase Back-up Cameras	Made with POTENTA to come	
SNP009R2	U.1UZ34.02	rec .	Jonnson, Walter	warmschaffe, Steve	Changing CPP-749 Security Requirements	CP9-749 Remediation: Project activities are delayed because of changing CP9-749 Requirements derived from planned security related valuerabilit assessments impose more restrictive security controls.	Open	Threat	Accept	rossible	Minor	2-tow	, 45,864 S	214,032	428,064	3	24 28	Best Case: 3 days X 12 hr. X 13 FTEs X \$98/hr Most Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr Worst Case: 28 days X 12 hr. X 13 FTEs X \$98/hr	The state of the s	Work with DOE/BEA to ensure project activities comply with security plan.	
																			1		

ated: 1.29.25 Status Risk Type Strategy Likelihood Risk Impact Risk Rating Organization IEC POC DOE FPD Risk Title Risk Description Trigger Event Best Case Most Likely Worst Case Best Case | Most Likely | Worst Case Mitigation Actions Risk Corrective Actions Risk ID WBS Basis of Impacts Fuel packages will be visually inspected prior to being litted for the purpose of identifying comosion issues. It an inspected four plackage is determined to be joopardand bacause of corrosion then, retrieving the test package will be disluped until a recovery plan is developed/approved and readied to work. A conceptual design for retrieval equipment capable of safely litting joopardand fuel package has been developed and reviewed/disported by DOE. SNF011R2 During Peach Bottom vasit inspections, corrosion capable of jeopardizing 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. fost Likely: 14 days X 12 hr. X 13 FTEs X \$98/hr. Vorst Case: 35 days X 12 hr. X 13 FTEs X \$98/hr. Wahrschaffe, Steve Advanced Test Reactor (ATR) SNF Receipt: IEC ATR Direct: IEC schedule delay caused by ATR schedule Delay Caused by ATR. Best Case: 3 days X 12 hr. X 13 FTE X 598/hr Most Like): 24 days X 12 hr. X 13 FTE X 598/hr Mort Case: 26 days X 12 hr. X 13 FTE X 598/hr Best Case: 95 days X 10 hr. X 13.56 FTE X 596/hr - 51,211,21 Most Like): 100 days X 10 hr. X 13.36 FTE X 596/hr -52,308.020 Worst Case: 20 days X 10 hr. X 13.36 FTE X 596/hr -52,616.422 SNF015#2 D.1.02.32.31 Elloworth, Carla Equipment and/or operations delays at ATR cause delayed or moved shipment dates to INTEC. Almost Certain Minor Open Threat 45,864 1,700,000 1,700,00 SNF01692 Destaco clamps found to be damaged or damaged when Critical 2,616,42 Perform a QL assessment to evaluate the subcontractor's quality program. The contractor has to be an NQA-1 qualified for equipment and quality level QL-2 Tahnschaffe, Steve SNF Staging Facility: Vendor Sele Cost Ranges: SDS Rework: \$200K, 400K, 750K Design Rework: \$300K, 750K, 1M IEC management and DOE Coordination: \$150K, 300K, 600K ad Ready Demonstration is acting to get the stractor approved at an appropriate quality level Q Der STD-1189-2016 it was determined that the Staging Facility will be a simple modification and be able to fiell under aciding SAR 122 and SAR 134. This means that Safety Designs Strategy will not be performed for this project. The budding may not be a simple mod and that a Safety design strategy will be required. Threat Critical hnschaffe, Steve SNF Staging Facility: Nuclear Safety 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 paid design will be performed via subcontract.

Work performed for the interdependent designs exceed sched Best Case: 2 weeks @ 40hr./week x 1 FTE @ \$100/hr.+ 4 week @ 95 hr. for sub administration @ \$80/hr. Most Likely: 4 weeks @ 40hr./week x 1.5 FTE @ \$100/hr.+4 weeks @ 95 hr. for sub administration @ \$80/hr. Norst Case: 8 weeks @ 40hr /week x 2 FTE @ \$100/hr.+6 weeks @ 95 hr. for sub administration @ \$80/hr. I.) Increase periodicity of planned maintenance.
 2.) Perform additional routine observations to the machines mornitoring systems or maintenance can be planned and performed in accordance with the manufactures recommendations.
 31 The carse will be removed and sent to CFA big shop for recommendation. D.1.02.36.08 services only on IEC's QSL but not in compliance with QARD 20. QA audit scheduled June for fabrication facility. Fork with BEA to identify possible delays due to supp hain issues. Also mitigating by purchasing long lead erns at risk to minimize impacts to schedule. Other ossible options to include fabrication of the DOSS's the INTIC facility mitigating EEA QA and time onstraints. The costs listed from delays are based on 13k/day cost to operate a SNF crew. IFC/DOF 3 000 0 133(steps coil to operate a 50° cross y he report a 50° cross y he report a 50° cross the size of the rest continued use of the Part well funding can be defined upperfect or regions. These Part's will do be load, a size of the rest of the report of the r Road Ready Project: 401 Palt replacement Project delay or lack of funding could delay to RRDP in the event of PAR equipment failure SNF330 e Stif Road Ready Demonstration Project.
Failed Road Weld feeling foot weld.

Failed Road Weld feeling foot weld. <del>Likely</del> Possible Leak Testine System is not acceptable.

Prior to performing excavation activities, all Team D.1.02.36.0 Prior to performing excavation activation, all team members performing or monitoring work will be briefed on the nature of the facility including age and possible unknown conditions. Explaiering to provide overright and help reactive issues encountered to minimae schelebal immack. During the design process, MCP-3138 to evaluate the structural integrity of the facility and modifications will be followed. If the analysis shows failure of the west processes the process of the second of the condi-SNF335 D.1.02.36.06 Likely Serious 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, MC9-3338 will be followed to determine extent of the NUL-3-33-36 will be instinued to desermine extent or the diamage. During the design process, MCP-33:58 to evaluate the structural integrity of the facility and modifications will be followed. If the analysis shows failure of the west truck rising will account; the movement of the Craine will be mitigated by administrative controls in the proper procedure. If a cask drop occurs during operations, MCP-33:58 will be followed to determine extent of the SNF336 D.1.02.36.06 Open Threat Likely Serious Road Ready Project: Analysis of a drop of a cask is required to be done prior to SAR. D.1.02.36.06 SNF Road Ready Demonstration Project: Likely Serious the crane envelope. Administrative controls will be corporated into procedures to minimize structural dam cility in the event of a cask drop. MCD-3153 will be followed to determine extent of the demane.

Possible heavy construction of transfer rouse path to improve road capacity. Alternative methods of transfer of cask to include heavy hast trainer and menting sizely fasture proof crane or smaller method to transfer cash. Engineering will facilitate further ediscussion to develop control of the companies of the control of the proposition proof to mode and categorisation. Other processing sizely made and categorisation of loaded cask to be within the CPP-603 building. D.1.02.36.06 Road Ready Demonstration Transfer route is not approved for Vertical Cask Transpo (VCT) use. Threat SNF339 D.1.02.36.06 Road Ready Project schedule may be delayed in the event that insufficient maintenance funding is available to update facilities, systems, equipment, and infrastructure or recover from significant system failures. Threat Likely continue operations/support future projects such as the Packaging Demonstration. MSM and its approximate costs were determined from \$13K/day crew costs applied to a 3, 6 and 12-month Major Major ee SNF Road Ready Demonstration Project: CP 603 Crane Failure Impacts 101 or 401 to repair the system successfully. Craine PMs/coher maintenance is oreformed on schedule. Project Management will work with work crees dari construction to identify any potential delay during. Truck Ramp fil-in and schedule PCS modifications accontingly. Additionally, any work that can be performed on the PCS modifications outside of the SNF347 D.1.02.36.08 Due to facility layout and any delay in work on the West Truck Ramp Fill-in could potentially cause a delay in Permanent Containment Structure (PCS) modifications. Threat Likely Possible Serious Wahnschaffe, Steve SNF Road Ready Demonstration Project: Maintain Crews SNF353 D.1.02.33 by After beginning the Distributed Control System project, scope is realized to be more complex than originally enticipated. This will result in schedule and cost increases to moralized side being and the properties of the pro Emerging Threat Likely Major 100,000 800,000 5 1,500,00 nschaffe, Steve DCS: Project is More Planned For Accept 23 79 143 hnschaffe, Steve DCS: Schedule Delays 32 SNF355 D.1.02.33 16 87 IEC Ellsworth, Carla Wahnschaffe, Steve DCS: Loss of SME Experience Emerging Threat Accept Possible Major 150,000 \$ 176

dated: 1.29.25 Status Risk Type Strategy Likelihood Risk Impact Risk Rating Worst Case Risk ID WBS Organization IEC POC DOE FPD Risk Title Best Case Most Likely Best Case Most Likely Worst Case Mitigation Actions Risk Corrective Actions Risk Description Trigger Event Basis of Impacts fost Likely: 2 weeks accumulative of inclement weather Vorst Case: 4 weeks accumulative of inclement weather \* base schedule/no cost delays on this Weather Conditions:
Wind Spand greater thin or equal to 20 mph for filting
activities need in imagement evaluation to proceed.
There is minimal precipitation learned to extract not greater
thanks in institute a country within 20 miles.
Wind spand is NOT 31 mph or greater for lithing activities,
which is considered to the country within 30 miles.
Wind spand is NOT 31 mph or greater for lithing activities,
mobile screen shadown occurs at sixth organic of 31 mph
Cask bits interpretative within the circle on the cask body may
be above 30 agreems fahrenhealt and blobs 17 to flegeres. Bell debtor 3-10 upgaves within the circle on the cations the Life bits treatment within the circle on the cations the Life bits treatment 2-10 destreas Exherites the Bell Class Compilete 3-10 destreas Exherites the Send Class Compilete 3-10 bits to Send Destroy for 5 days Morat Likely. Compilete 3-10 bits of down for 5 days Morat Class: Compilete 3-10 bits 10 bits of 2-10 days Morat Likely. Compilete 3-10 bits 10 bits of 2-10 days Morat Likely. Compilete 3-10 bits 10 bits of 2-10 days Worst Case: Compilete 3-10 bits 10 down for 7 days Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impact to the cost and schedule. External event(s) at other INE. locations or DOE sites cause a stop work. Serious Global Risk: Work Delay Due to Abnormal Weather Conditions cloisure.

Enternal event(s) at other INI. locations or other DOE sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facilities, any crisis that is found at another facility fact could potentially exist at Islaho Clearus Project (ICP) causins a stop work, sec. Due to the amount of line-item projects being worked at the Idaho Environmental Coalition (IEC), limitation of Dates scope exception may be experienced as a direct result of variability in drinding, inability to execute base scope under the end state contact model will result in longer durations required to reach the desired end-states. This will increase the overall costs of the label Celerapy Project (ICC), and could impact staffing Global Risk: Line-Ite Unlikely FINDA results, using SOCs and all other assistable NDA expigment, will not provide will cause more than the feet in the section of a set to relative, the section of the section of the provided of the provid Best Case: 16 days x 10 hr./day x 4 people x \$75/hr.=\$48,0 Most Likely: 32 days x 10 hr./day x 4 people x \$75/hr.= \$96,000 Worst Case: 48 days x 10 hr./day x 4 people x \$75/hr.= \$144,000 A) "A) has not but IC call loss critical personnel and will be smaller to the but IC call loss critical personnel and will be smaller to the smaller to the smaller personnel with separation set of the translate conformation. A term set of the smaller personnel conformation, but the set of the smaller personnel conformation and smaller sma Best Clase: 32 days x 10 hr /day x 2 people x \$80/hr - \$51,200

Provide cross training between disciplines and increase
Most Libay: 62 days x 10 hr /day x 2 people x \$80/hr \$99,300

Provide cross training between disciplines and increase
communication with the DOT-D and CBP1 to minimiz
and challenges with them as they arise. AMMYE LIWANLIW Dissocition.

Descripting results performed by Perma Fix Florida (PFF). Energy Solution:

Dissocitional Treatment Costs Determined by Perma Fix Florida (PFF). Energy Solutions (PSS) and Waste Control Specialists (WCS) there may be additional treatment costs for jump Perma Fix Energy Solutions (Waste Control Specialists). Best Cisie: \$11,000 would be the cost of doing VTD treatment for a drum where unanticipated organics were found, such as sludge found in a debris container. This is a good conservative estimate for additional treatment needed, as this would be on of the most expensive routes of treatment. Most Likely-\$11,00 of the most expensive routes of treatment. Most Likely,511,0 would be the cost of doing VTD treatment for a draw mouth or the cost of doing VTD treatment for a draw material and the control of the cost of the most open cost of treatment. Worst Case: Most than one container is found to need additional treatment. We would be cost of the most open container is found to need additional treatment. We written the cost of the cos 4 = 544,000 at Case. Return bilipping costs are \$20,000 to send a container facts to su Most Likelyr. Return bilipping costs are \$2,000 to send a container facts to su Most Likelyr. Return shipping costs are \$2,000 to send a container fact to su Most Likelyr. Return before the substitution of the \$2,000 to send a container fact to su straight costs are \$2,000 to send a container fact to su straight costs are \$2,000 to send a container fact to su straight cost and \$2,000 to send a container fact to such as \$2,000 to send a container fact substitution for producing in will add an extra dispipient, required \$2,000. As \$2,000 to send \$2,000 to sen The state of special services are promoted through the colors (bough, and bought dist).

The STORY AMPPER SUPPLY and service which is serviced that are set of services and a se D.2.03.36 Threat Unlikely Major Don't term complete CEIG authorized testing, if results to the forward with laboratory analysis of amonorus tobar in ARP weeks is those that amonorum richate in ARP weeks to the control of the control Most Litery: 04 days x 10 hr./day x 4 people x \$75/hr.= \$192,000 Worst Clist: 128 days x 10 hr./day x 4 people x \$75/hr.= \$384,000 Jankins, Tally

CH:TRU Waste Dissosition: Waste Does Not If containers do not meet Bolk requirements, then additional processing will be required.

Indicate the containers of D.2.03.31.06 Containers fail BoK criteria. Open Threat orst Case: 64 days x 10 hr./day x 2 people x \$75/hr.= \$96, D.2.03.31.06 Junion, Taly

Chittis Wash Experience Product Drawn

Experience Control Sec Open Threat Serious D.2.03.31.06 Open Possible Beet Case: 64 days x 10 hr /day x 2 people x 575/hr ~596,000

Ubline CCP-AX Support and develop a system to work

total Likely. 21d days x 10 hr /day x 2 people x 575/hr ~

102,000

Worst Case: 55 days x 10 hr /day x 2 people x 575/hr ~

383,000 D.2.03.31.06 If commodities (slip sheets, TDOP and SWB) are limited and shipments cannot be completed as planned, then the need for overpack of waste containers into larger and certification and/or WIPP shipments. larger overpacks increases and the overpacks may not be authorised for VMPP disposal. Threat Best Case: 64 days x 10 hr./day x 4 people x \$75/hr. - \$96,000 Most Likely: 128 days x 10 hr./day x 4 people x \$75/hr. -\$192,000 Worst Case: 256 days x 10 hr./day x 4 people x \$75/hr. - \$384,000 additional stock. Best Case: 15 days x 10hr /day x 4 people x 545/hr - 528,800
Most Likely, 21 days x 10hr /day x 4 people x 545/hr - 528,800
Most Likely, 21 days x 10hr /day x 4 people x 550/hr - 540,000
Worst Case-48 days x 10hr /day x 4 people x 555/hr - 5106,600 Open Threat D.2.03.34.05 CH-TRU Storage & Movement: Unforeseen
Need for equipment replacement due to accident, breakdown, end of useful life,
Equipment Replacement Need
Subrication of new drum movement components/attachments, etc. Likely Replacement parts or replacement vehicles are unable for purchasing or long lead times. Best Case 8 days 4 250r. days 4 people x 65/hr - 254.602 Mattain investory of commodities and forecast for find alternative commodities compatible with scop word case 2 days 2 250r. days 4 250r. days 28,800 Best Case: 50 days x 10tr \_fday x 4 peoples x 63/hr - 580,000 Increase monitoring and testing the integrity of Most Likely. To days x 10tr\_days x peoples x 64/hr - 550,000 LILVyMLLW drums before shipping to storage facility. Overall Case: 50 days x 10tr\_days x peoples x 64/hr - 550,000 Increases and basing-lineasing costs 5130k 4200K imagestration and basing-lineasing costs 5130k 4200K Threat Major Likely Best Case: We continue to order MACOD bugs and patient for 
ANIX Whymens, which cost appers, \$13,000 are shipment. and patient, and process MACOD bugs 
ANIX Whymens, which cost appers, \$13,000 are shipment. and patient process and followed back on patient to 
MACOD Search Washington, and anix of the control of the contr Add/25 statistics to financiation. Pallet
the states at the gallet and/or miscrating emister size may divrige to an dirity to account
Clogar lature Impact Statyping Scheldur and
may delay makes removed to the production

Application of the state of the MACRO bags and pallets canno able to provide their product. D.2.03.32.05 Jankins, Tally CH-TRU Treatment Facility Support: Equipment Breakdown Threat Possible Mitigate 5192,000 Worst Case: 128 days x 10 hr./day x 4 people x \$75/hr. =

#### **IDAH** COALITION

D.2.03.34

Martin, David

#### TO3 Phase 2 Risk Register

Basic of Impacts

Social 22 days x 12th x (days x 4 grouples \$75/th - 586,000

Most Listyle 64 days x 12th x (days x 4 grouples \$75/th - 586,000

Most Listyle 64 days x 12th x (days x 4 grouples \$75/th - 585,000

Most Class 12 days x 10th x (days x 4 grouples \$75/th - 585,000

Most Class 12 days x 10th x (days x 4 grouples \$75/th - 585,000)

Most Class 12 days x 10th x (days x 4 grouples \$75/th - 585,000) dated : 1.29.25 Risk ID WBS Organization Trigger Event Most Likely Worst Case Best Case Most Likely Worst Case IEC POC DOE FPD Risk Title Risk Description

Difficulty/delays caused by not being able to determine the best path forward to be able to treat and package Ammorium Nitrate bearing waste in a safe and compliant manner. Best Case Risk Corrective Actions Notes Jenkins, Tally CH-TRU Treatment Facility Support: Ammonium Nitrate Changeover mpacts are estimated based on replacing/repairing equipment. Intribute planned and regular communication with purchasing department and windors to ensure that necessary terms are stocked where of time to ment work scope demands and with additional stock for ba 0.2.03.37.04 Martin, David TRU040 0.2.03.31.06 Byram, George Jenkins, Tally

On-TRU Weste Discourtion: BEA Cennot
Complete Detail Classified Document
Reviews

For Reviews

For Reviews

For Reviews

The Reviews Likely Critical Best Case: 104 days x 10 hr./day x 2 people x \$75/hr. = Attempt to ensure documents can be provided for CBFO review to support waste certification and the annual recertification audit. \$156,000 Most Likely: 208 days x 10 hr./day x 2 people x \$75/hr. = \$312,000 STATUSON
SERVICE CLASS AND SERVICE AND SER TRU041 D.2.05.30.17 Open Threat Mitigate Likely Moderate Orme, Jason Menkins, Taily

Non-AMWIP Treatment and Disposal:

Equipment Failure

In the event that equipment fails, it will need to be repaired or the project will need to

Equipment Failure

In the event that equipment fails, it will need to be repaired or the project will need to

If any of the following equipment fails: Bobcat 550, Telehandler

T1923, Ions Bull Deck Over 5th Wheel. 118,000 16 236,000 \$ 354,000 Archins, Tally MonAMATE Transment and Discose:
Treatment, Strang, and Disposel Facility
(SSP) Closer
(SSP) Cl Mitigate Orme, Jason Threat Possible Minor FTEs X (\$110/hr. + OT = \$165/hr.)
Certification rework and repackaging to meet Waste Jackin, Taly

Tour ANPET? Treatment and Dispose. Wasta

Ouing the verification process, if a waste containing(s) is found to not be in accordance. A containing(s) is identified as damaged, packaged incorrectly,
Container Treatment, Storage, and Opposite

National, Tour (Society, Container Society). The Container Society (Society, Container Society, Container, TRUDAS D 2 05 30 19 Orme, Jason Threat Mitigate Rare 54,000 81 000 108,000 Threat Serious TRU044 D.2.05.30.21 Orme, Jason Likely 236.000 The state of the s TRUDAS 0.20530 Orme, Jason Threat Likely Mingr TRU049 D.2.03.36.04 Vargesko, Matthey Possible 150,000 CSS Water Carrier Speciality (NCC), Prem's for freed (PFF).

15 we find it must the reasy part of of of an Pace (MCK was etc., the CC) (as PAF
depended) will lainly have complicate order, of these variety or large of the premise of the carrier. If no expert is must be reasily for expert will be ready to the ready of the premise of the carrier is must be ready of the carrier. If the premise of the carrier is must be ready to the premise of the premise o D.2.03.34 Martin, David Threat Possible Minor Once received, the robot does not perform as fast as anticipated. When throughput is fast than anticipated, the project will experience schedule delays. originally anticipated. TRU302 D.2.03.34 Martin, David Jenkins, Tally CH-TRU Storage and Movement: Less Than Anticipated Throughput Open Threat Mitigate Rane Minor 5,000 20,000 5 40,000 16 Jankins, Tally CHTRIL Storage and Movement. Availability Crews are not available to move drums in support of Utrasonic Testing due to higher Utrasonic Testing is paused until crew is available to move drums to robot location.

On Move Crew printy scope, resulting in schedule delays. of risk
32 CAM judgement used to develop initial numbers, subcontractor N/A TRU303 Open

Threat

Unlikely Minor 20.000

## CID 89303321DEM000061/89304223FEM400000, Mod P00074 CLIN 06, Subtask 0601 Task Order 6.1

## IEC Task Order 6 Risk Register

daho Cleanup Project Programmatic Risk Register

odated to : 1.30.2	5														Cost Impacts		Sch	edule Impacts (	n days)				
RiskID	Task Order	WBS	Responsible Organization	Risk Owner	DOE 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 Likely	Worst Case	Basis of Impacts	Mitigation Actions		Notes
NRC003R2	106	D.1.03.60 D.1.03.61 D.1.06.60 D.1.06.61	IEC	Long, Jeff	Wahnschaffe, Steve	NRC Licensed SNF Storage Facilities: Aging conditions of facilities	There are aging conditions at both TML12 and FSV.  Continued weathering and degradation is likely to require additional repairs and maintenance to concrete, paint, and other coatings, associated infrastructure components, etc. If these repairs and/or upgrade do not occur they will prohibit critical project completion and could be identified as noncompliance with NRC requirements.	Open	Threat	Accept	Possible	Major	4-High	\$ 100,000	\$ 250,000	\$ 500,000	48	80		Based on SME Input Best case is that tack of tunding will occur between activities resulting in schedule delays but no rework or additional mobilization/demobilization/stand-by impacts. Most likely case is that in addition to schedule delays, some re-work will be required mobilization/demobilization of cress will be required, vendor costs will be higher due to inflation and securing specialized resources, and additional procurement of equipment. Worst case is that funding is cut in the middle of the job resulting in complete re- work, additional demobilization/mobilization costs, work site being left in condition to cost or accelerate deterioration conditions, etc.	n	None	
NRC007R2	TO6	D.1.06.60 D.1.06.62	IEC	Long, Jeff	Wahnschaffe, Steve	NRC Licensed SNF Storage Facilities: Loss of Specialty 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 replacement personnel are immediately available with little downtime or 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.		None	
NRC011	TO6	D.1.06.60 D.1.06.63	IEC	Long, Jeff	Wahnschaffe, Steve	NRC Licensed SNF Storage Facilities: Industrial Incidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury nay cause an extended shutdown to resolve conduct of operations issues.	Open	Threat	Accept	Rare	Minor	1-Low	\$ 20,000	\$ 50,000	\$ 300,000	5	10		Cost is based on ROM estimate to perform corrective actions, but dependant on extent of vent.Best case = incident is minor, and investigated quickly with very few corrective actions requiring attention. Worst case = prolonged shut-down with extensive recovery actions, training, etc.	MA	None	
NRC300	ТО6	D.1.03.61.05	IEC	Long, Jeffery	Wahnschaffe, Steve	Crane 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.	Realized	Threat	Accept	<del>Rare</del> Almost Certain	Minor	1-Low	\$ 2,000	\$ 10,000	\$ 50,000	1	14		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.			
NRC301	то6	D.1.03.61.05	IEC	Long, Jeffery	Wahnschaffe, Steve	Incompatible 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.	Open	Threat	Accept	Rare	Moderate	1-Low	\$ 5,000	\$ 50,000	\$ 200,000	14	30		Best case assumes that equipment can be returned to the vendor without any penalties and minimum restocking fee. Most likely case assumes that only some equipment will cannot be returned to vendor and delays to schedule and costs for additional trips by vendor to the facility. Worst case is based on needing to re- purchase all new equipment.			



CID 89303321DEM000061/89304223FEM400000, Mod P00074 CLIN 07, Subtask 0701 Task Order 7.1

# TO7 Risk Register

### Idaho Cleanup Project Programmatic Risk Register

Updated: 1.29.25		made Nisk Ne	gistei										Γ		Cost Impacts		Sched	ule Impacts (in	n days)			
Risk ID		Responsible Organization	IEC POC	DOE FPD	Risk Title	Risk Description	Trigger Event	Status	Risk Type	Handling Strategy	Risk Event Likelihood	Risk Impact	Disk Dating	Best Case	Most Likely	Worst Case		Most Likely		Basis of Impacts	Mitigation Actions	Risk Corrective Actions
IWTU001R2	D.3.06	IEC		-	INST THE CANISER DECON System will not decontaminate the canisters to acceptable levels for transfer.	The Canister Decon System will not effectively or efficiently	Contamination levels exceed established limits and/or spreads outside of the can fill cells	Open	Threat	Accept	Unlikely	Moderate	2-Low	\$ 84,000 \$			-	30	150	•	N/A	RISK CUITECUVE ACTIONS
IWTU009aR2	D.3.06.70.01	IEC	Nowak, Joel T	Neville, Trent	: <u>IWTU</u> : Lack of resources	Completing IWTU scope will be impacted due to a lack of resources.	The project cannot staff up as planned to support scheduled work.	Open	Threat	Mitigate	Unlikely	Moderate	2-Low	\$ 133,920 \$	267,840	\$ 401,760	12	24	36	Best Case: 12 days x 10 hrs/day x 12 people x 593/hr = 5133,920 Most Likely: 24 days x 10 hrs/day x 12 people x 593/hr = 5267,840 Worst Case: 36 days x 10 hrs/day x 12 people x 593/hr = 5401,760	fill these gaps with subcontracted labo and hiring additional planners and supervisors. Routine communication	
IWTU010R2	D.3.06	IEC	Nahay, Jordan	Neville, Trent	: IWTU: The simulant is not fully representative of actual waste.	Simulant is not fully representative of actual waste. For example mercury and heavy metals have not been included in the simulant. This may result in system performance problems causing delays.	e, introduction of actual waste causes plant performance problems.	Realized	Threat	Mitigate	Almost 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 \$100/hr= \$32,000 Most Likely Case - 60 days X 10 hr/day X 6 FTE X \$100/hr= \$360,000, Material Cost = \$100,000 Worst Case - 180 days X 10 hr/day X 8 FTE X \$100/hr= \$1.44M, Material Cost= \$300,000	Ramp up waste feed percentage (vs. simulant) during System Performance Test. Review original test results for accuracy and completeness.	
IWTU016R2	D.3.06.78.01	IEC	Nahay, Jordan	Neville, Trent		r 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 \$265/hr = \$216,240 Most Likely: 8 days x 12 hrs/day x 17 people x \$265/hr = \$432,480 Worst Case: 16 days x 12 hrs/day x 17 people x \$265/hr = \$864,960	Subcontractor to work additional days to complete GAC replacement.	
IWTU023R2	D.3.06.77.01	IEC	Nahay, Jordan	Neville, Trent	: IWTU: Vaults are constructed in winter weather.	Schedule delays require constructing vaults in winter weather, thereby increasing vault construction costs. Concrete heating and weather conditions impact the safety of the craft work force	construction.	Open	Threat	Accept	Possible	Major	4-High	\$ 400,000 \$	1,500,000	\$ 1,750,000	8	17	34	Impacts to concrete curing time and compaction testing due to adverse weather conditions, additional engineering analysis needed for acceptance	N/A	
IWTU024R2	D.3.06.77.01	IEC	Nahay, Jordan	Neville, Trent	IWTU: New Vault concrete does not meet shielding density requirements	New Vault concrete does not meet shielding density requirements.	Gamma inspection identifies vault failure.	Open	Threat	Accept	Unlikely	Serious	2-Low	\$ 500,000 \$	1,000,000	\$ 1,500,000	17	34	51	Additional shielding or analysis needed for acceptance	N/A	
IWTU030R2	D.3.06.70.01	IEC	Nowak, Joel T	Neville, Trent	: IWTU: The wet decon system rebuild does not function as designed.	I 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	Best Case: 16 days X 10 hr/day X 2 FTE X S100/hr= \$32,000 Most Likely Case: 30 days X 10 hr/day X 3 FTE X \$100/hr= \$90,000 Worst Case: 90 days X 10 hr/day X 3 FTE X \$100/hr= \$270,000	N/A	Upon completion of project testing significant spares were ordered and have been received. Redundant colloid mills and strainers.
IWTU036R2	D.3.06.73.01	IEC	Nahay, Jordan T	Neville, Trent	: <u>IWTU</u> PSB <u>:</u> Change orders Requiring Major Design Changes.	Change orders requiring major design changes are issued during excavation or construction, causing an increase in cost and schedule.	g 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	Best Case: 20 days x 10 hrs/day x 4 people x \$225/hr = \$180,000 Most Likely: 30 days x 10 hrs/day x 4 people x	potential issues before they impact	
IWTU037R2	D.3.06.73.01	IEC	Nahay, Jordan T	Neville, Trent	E IWTU PSB: Multiple minor change orders issued during construction.	Multiple minor change orders are issued during construction, causing schedule delays and cost increases.	Multiple minor change orders are issued during construction or excavation.	Open	Threat	Mitigate	Almost 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 593/hr = 589,280 Most Likely: 16 days x 10 hrs/day x 12 people x 593/hr = \$178,560 Worst Case: 30 days x 10 hrs/day x 12 people x 593/hr = \$334,800	Engineering during additional walkdowns and drawing to identify potential issues before they impact	
IWTU041R2	D.3.06.75.01	IEC	Frye, Meesha	Neville, Trent	<u>IWTU:</u> 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 <120 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 = \$36,000 Most Likely: \$300/canister expedite fee x 200 canisters = \$60,000 Worst Case: \$300/canister expedite fee x 300 canisters = \$90,000	canisters and excel shipping of canisters to subcontractor to build reserve inventory.	
IWTU049	D.3.06.78.01	IEC	Nahay, Jordan	Neville, Trent	: <u>IWTU</u> : Unable to release vendor supplied equipment	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		N/A	
IWTU050	D.3.06.75.02	IEC	Frye, Meesha	Neville, Trent	iWTU: New canisters do not pass QA receipt inspections and must be reworked/replaced.	New canisters do not pass QA inspections and must be reworked/replaced.	One new canister fails inspection.	Open	Threat	Mitigate	Possible	Minor	2-Low	\$ 4,000 \$	6,000	\$ 22,900	4	8	12		Order replacement canisters.	
IWTU053	D.3.06.73.01	IEC				Delays in PSB II construction results in inadequate storage capacity and operational delays.  IEC relies on BEA for support services on Milestones, regulatory	PSB I is full and construction of PSB II is incomplete.	Open	Threat	Mitigate Shared	Possible	Moderate Moderate	2-Low 2-Low	\$ 150,000 \$	300,000 \$390,600			10	20	Best Case: 10 days X 10 hr/day X 10 FTE X \$150/hr= \$150,000  Most Likely Case: 10 days X 10 hr/day X 20 FTE X \$150/hr= \$300,000  Worst Case: 20 days X 10 hr/day X 20 FTE X \$150/hr= \$500,000	Use additional overtime resources to complete PSB-II as soon as possible.  Propose sharing risk with DOE.	
	3.3.00			nerme, frent	Meet IWTU Scheduled Need Dates.			орен ————————————————————————————————————	inicat	Sites CU	Similacity	derdie	2-2017	2.3,000		¥1,110,000				Best Case: 3 Odys X 10 Hs/dy X 20 FTES X 593/hr Most Likely Case: 21 days X 10 hrs/dy X 20 FTEs X 593/hr Worst Case: 60 days X 10 hrs/dy X 20 FTES X 593/hr	The state of the s	
IWTU055	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 ou of Vaults for waste canister storage. With only 5 vaults remainin for storage the project anticpates running out by approximately April 2024.	Vaults are filled.	Open	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/dy Most Likely Case: 120 days X \$242,857/dy Worst Case: 180 days X \$242,857/dy	N/A	
IWTU056	D.3.06.75.02	IEC	Frye, Meesha	Neville, Trent	I <u>IWTU:</u> No waste canisters availble fo storage.	r If subcontractor is unable to produce additional waste canister production by the time they are needed the project will run out of waste canisters. Current project pace anticpates running out by approximately April 2025.	have less than 32 canisters available on	Open	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/dy Most Likely Case: 45 days X \$242,857/dy Worst Case: 60 days X \$242,857/dy	N/A	



# TO7 Risk Register

### Idaho Cleanup Project Programmatic Risk Register

odated: 1.29.25															Cost Impacts		Sche	dule Impacts (	n days)			
		Responsible									Risk Event											
Risk ID	WBS	Organization	IEC POC	DOE FPD	Risk Title	Risk Description	Trigger Event	Status	Risk Type	Handling Strategy		Risk Impact	Risk Rating	Best Case	Most Likely	Worst Case	Best Case	Most Likely	Worst Case	Basis of Impacts	Mitigation Actions	Risk Corrective Actions
WTU301	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.	Hazen Run discovers the need for further plant modifications.	Open	Threat	Accept	Possible	Serious	3-Moderate	\$200,880	\$401,760	\$803,520	30	60		Best Case: 30 days x 12 hrs/day x 6 people x S93/hr = \$200.880 Most Likely: 60 days x 12 hrs/day x 6 people x \$593/hr = \$401.760 Worst Case: 120 days x 12hrs/day x 6 people x \$593/hr = \$803,520	/A	
VTU302	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		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	/A	
VTU303	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		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.	/A	
WTU304	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.	IWTU 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		Best Case: 12 days x 12 hrs/day x 12 people x \$93/hr = \$150,704 Most Likely: 24 days x 12 hrs/day x 12 people x \$93/hr = \$321,408 Worst Case: 36 days x 12 hrs/day x 12 people x \$93/hr = \$482,112	/A	
VTU305	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		Best Case: 224 canisters x \$25,000/canister = N, \$5,600,000 Most Likely: 726 canisters x \$25,000/canister = \$18,150,000 Worst Case: 992 canisters x \$25,000/canister = \$24,800,000	/A	
/TU306	D.3.06	IEC	Nahay, Jordan	Neville, Trent	Additional Canister Vaults	Additional vaults 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		Best Case: 14 Vaults x \$600,000/Vault = N, \$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	/A	
WTU307	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		Best Case: Smaller PSB-III N, Most Likely: PSB-III identical to PSB-II Worst Case: PSB-III larger than PSB-II	/A	
VTU308	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		Best Case: 3 weeks * \$2,100,000/week = \$56,300,000 Most Likely: 6 weeks * \$2,100,000/week = \$12,600,000 Worst Case: 12 weeks * \$2,100,000/week = \$25,200,000	/A	
VTU309	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 IWTU 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		Best Case: Replacement Duration 120 days for N, 7 FTE's at 593/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.	/A	