| AMENDMENT OF SOLICITATION/MODIFIC | ATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGI | E OF PAGES |
|---|---|-----------------------|--|----------------------------|---|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE DATE | 4. RE | QUISITION/PURCHASE REQ. NO. | 5. PROJEC | T NO. (If applicable) |
| P00031 | 05/01/2022 | | | | , ,, |
| 6. ISSUED BY CODE | 892432 | 7. AD | MINISTERED BY (If other than Item 6) | CODE 0 | 0701 |
| U.S. Department of Energy Idaho Operations Office 1955 Fremont Avenue Idaho Falls ID 83415 | | Ida 195 | 5. Department of Energy ho Operations Office 55 Fremont Avenue ho Falls ID 83415 | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, | , county, State and ZIP Code) | (x) ^{9/} | A. AMENDMENT OF SOLICITATION NO. | | |
| Idaho Environmental Coalition | | | | | |
| Attn: Jason Mack | | 98 | B. DATED (SEE ITEM 11) | | and the second se |
| 600 William Northern Blvd | | | | | |
| Tullahoma TN 373884729 | | - 10 | A. MODIFICATION OF CONTRACT/ORDER NO | | |
| | | X 8 | 9303321DEM000061 |). | |
| | | | | | |
| | | 10 | DB. DATED (SEE ITEM 13) | | |
| CODE | FACILITY CODE | | 05/27/2021 | | |
| | 11. THIS ITEM ONLY APPLIES TO A | AMEND | MENTS OF SOLICITATIONS | | |
| RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to on each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (If requires the second | change an offer already submitted , such ace to the solicitation and this amendmer <i>iired</i>) | t change nt, and i | e may be made by letter or electronic communica s received prior to the opening hour and date spi | ition, provide acified. | d |
| 13. THIS ITEM ONLY APPLIES TO M | ODIFICATION OF CONTRACTS/ORDER | S. IT № | ODIFIES THE CONTRACT/ORDER NO. AS DES | CRIBED IN | TEM 14. |
| CHECK ONE A. THIS CHANGE ORDER IS ISSUED F ORDER NO. IN ITEM 10A. | PURSUANT TO: (Specify authority) THE | CHAN | GES SET FORTH IN ITEM 14 ARE MADE IN TH | IE CONTRA | ст |
| B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH | CT/ORDER IS MODIFIED TO REFLECT I IN ITEM 14, PURSUANT TO THE AUT | THE AD HORIT | DMINISTRATIVE CHANGES (such as changes in (OF FAR 43.103(b). | n paying offic | e, |
| C. THIS SUPPLEMENTAL AGREEMENT | | | ITY OF: | | |
| X Contract Section B.9 | | | | | |
| D. OTHER (Specify type of modification | and authority) | | | | |
| E. IMPORTANT: Contractor | X is required to sign this document and | d return | copies to the issuing | office. | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION (| Organized by UCF section headings, inc | cluding | solicitation/contract subject matter where feasibl | e.) | |
| DUNS Number: Not Available | | | | | |
| JEI: LQ5ZLNE3EM27 Procurement Instrument Ident: | fine (DTTD), 000400 | | | | |
| Flocurement instrument ident. Fask Order - 3 Integration a | | | M1003 | | |
| lask older - 5 integration a | na mission continuit | У | | | |
| The purpose of this modificat | tion is to add the r | isk | registers to task order | 3 – Tr | tegration |
| and Mission Continuity in ac | | | - | | - |
| below for further details. | condunce with contra | | | Silariget | · Dee |
| tor further details. | | | | | |
| | | | | | |
| | | | | | |
| Continued | | | | | |
| | | A, as h | eretofore changed, remains unchanged and in fu | II force and e | effect. |
| Except as provided herein, all terms and conditions of the | e document referenced in Item 9 A or 10 | | - | | |
| | e document referenced in Item 9 A or 10 | 16A. | NAME AND TITLE OF CONTRACTING OFFIC | ER (Type or | |
| Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (<i>Type or print</i>) | e document referenced in Item 9 A or 10 | | NAME AND TITLE OF CONTRACTING OFFIC | ER (Type or | |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | e document referenced in Item 9 A or 10 | Aa | ron Nebeker | ER (Type or | print) |
| | 15C. DATE SIGNED | Aa: | ron Nebeker UNITED STATES OF AMERICA | | print) 16C. DATE SIGNED |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | Bus Services & PCZ | Aa: | ron Nebeker | | print) |

Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED 89303321DEM000061/P00031 OF 2

PAGE

2

NAME OF OFFEROR OR CONTRACTOR Idaho Environmental Coalition LLC

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | | UNIT PRICE | AMOUNT |
|----------|--|----------|-----|------------|--------------|
| (A) | (B) | (C) | (D) | (E) | (F) |
| | Payment: OR for Idaho | | | | |
| | U.S. Department of Energy | | | 7 | |
| | Oak Ridge Financial Service Center | | | | |
| | P.O. Box 6017 | | | | |
| | Oak Ridge TN 37831 | | | | |
| | Period of Performance: 10/01/2021 to 09/30/2031 | | | | |
| | refield of Performance: 10/01/2021 to 03/30/2031 | | | | |
| | Change Item 00003 to read as follows (amount shown | | | | |
| | is the total amount): | | | | |
| | | | | | |
| 0003 | Task Order-3 - Integration and Mission Continuity | | | | 668,617,119. |
| | Line item value is: \$668,617,119.00 | | | | |
| | Incrementally Funded Amount: \$294,623,739.49 | | | | |
| | - | | | | |
| | | | | | |
| | PIID: 89243222FEMT003 | | | | |
| | This modification adds the Risk Register for | | | | |
| | DOE-EM and IEC to task order 3 - Integration and | | | | |
| | Mission Continuity. Any DOE-EM risk realized | | | | |
| | will require a formal Request for Equitable | | | | |
| | Adjustment (REA) to be submitted and | | | | |
| | reviewed/approved by DOE-EM. See attachments for | | | | |
| | risk register documents. | | | | |
| | TISK TEGISTET documents. | | | | |
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TO3 DOE Risk Register

Idaho Cleanup Project Programmatic Risk Register

| - | | | | | | | | | | | | | Cost In | pacts | Scl | hedule Impacts (| in days) |] | |
|----------|--------------|----------------------------|---------|----------------------|---|--|---|----------------------|-------------|--------------------------|-------------|---------------|----------------------|------------------|--------------|------------------|------------|--------------------|---|
| Risk ID | WBS | Responsible Organizatio | | IEC Risk Back- up | Risk Title | Risk Description | Trigger Event | Handling Strategy | Risk Type | Risk Event Likelihood | Risk Impact | Risk Rating | Best Case Most I | ikely Worst C | se Best Case | Most Likely | Worst Case | Date Identified | Last update Activities |
| CAL007T | E.3.02.30.08 | DOE | DOE FPD | Kimbro, Val | Change in Definition Interpretation of High-Level Waste-Threat | The high-level waste definition interpretation may impact the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing). | High level waste definition interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste. | Transfer | Threat | Rare | Major | Low (2) | \$ 80,000 \$ 10 | 0,000 \$ 150, | 00 60 | 150 | 150 | 3/20/2022 | 4/13/2022 TO3CA-8000: CRP - Long-Term Strategy for Calcine Disposition Support FY22 TO3CA-8010: CRP - Long-Term Strategy for Calcine Disposition 1-2 Qtrs Sppt FY23 TO3CA-8020: CRP - Long-Term Strategy for Calcine Disposition 3-4 Qtrs Sppt FY23 |
| CAL007O | E.3.02.30.08 | DOE | DOE FPD | Kimbro, Val | Change in Definition Interpretation of High-Level Waste-Opportunity | The high-level waste definition interpretation may impact the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing). | High level waste definition interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste. | Transfer | Opportunity | Rare | Major | Low (2) | \$ (150,000) \$ (10 | ,000) \$ (80,4 | 00) -150 | -150 | -60 | 3/20/2022 | 4/13/2022 TO3CA-8000: CRP - Long-Term Strategy for Calcine Disposition Support FY22 TO3CA-8010: CRP - Long-Term Strategy for Calcine Disposition 1-2 Qtrs Sppt FY23 TO3CA-8020: CRP - Long-Term Strategy for Calcine Disposition 3-4 Qtrs Sppt FY23 |
| CAL008 | E.3.02.30.02 | DOE | DOE FPD | Kimbro, Val | Delay in the Agreement for Acceptable End-State of CSSF-1 | waste remaining in CSSF-1 could impact ongoing engineering work, specifically residual cleanout equipment. | Future discussions and agreements with Idaho agencies, including Idaho Department of Environmental Quality (IDEQ) and the Environmental Protection Agency (EPA), which will determine the acceptable end state for CSSF-1. | Transfer | Threat | Possible | Serious | Moderate (3) | \$ 100,000 \$ 20 | 0,000 \$ 300, | 00 60 | 120 | 180 | 3/20/2022 | 4/13/2022 TO3CA-2130: Prepare CSSF-1 EE/CA |
| ITWU002 | E.3.06.34.01 | DOE | DOE FPD | Nahay, Jordan T | Legacy Designs Cause Activity Delays | Legacy design issues during construction can lead to increased schedule delays and project costs. | Interruption in the original planned schedule due to unforseen issues with legacy designs. | Transfer | Threat | Likely | Critical | High (4) | \$ 500,000 \$ 1,00 | ,000 \$ 3,000,0 | 00 60 | 120 | 180 | 3/20/2022 | 4/13/2022 TO3-WTUWDR100: Install Wet Decon Rebuild (Dispersion Mill) TO3-WTUSPT140: Operate IWTU Plant with 100% SBW |
| IWTU003 | E.3.06.34.01 | DOE | DOE FPD | Nahay, Jordan T | Legacy Equipment Failure Prevents Transfers of Sodium Bearing Waste (SBW) | Unexpected legacy issues or failure of legacy equipment will occur on systems that cannot be tested prior to actual transfers of SBW from INTEC to IWTU. | Unexpected failure of legacy equipment or components that impact the functionality of the SBW Transfer system. | Transfer | Threat | Possible | Major | High (4) | \$ 500,000 \$ 75 | 0,000 \$ 1,000,0 | 90 | 180 | 270 | 3/20/2022 | 4/13/2022 TO3-WTUSPT120: Operate IWTU Plant with 10% SBW, 90% Simulant TO3-WTUOPS530A: Interim Processing of WM-189 FY22 |
| IWTU007 | E.3.06.34.02 | DOE | DOE FPD | Nahay, Jordan T | - | The Idaho Department of Environmental Quality (IDEQ) does not approve the RCRA permit modification which requires additional revisions of PLN-3298 IWTU System Performance Test Plan. | IDEQ determines that the RCRA permit modificaion is inadequate, requiring revision of PLN-3298 and resubmittal to IDEQ; extending beyond the review period. | Transfer | Threat | Unlikely | Serious | Low (2) | \$ 25,000 \$ 5 | 0,000 \$ 100, | 00 45 | 60 | 75 | 3/20/2022 | 4/13/2022 TO3-WTUOPS530B: Interim Processing of WM-189 FY23 |
| NICDF001 | E.4.06.30.02 | DOE | DOE FPD | Sorenson, Travis | Changes to International Building Codes Impact Idaho CERCLA Disposal Facility (ICDF) Design | The original design of the ICDF Cells 1 & 2 (2000 to 2002) implemented the Uniform Building Code (UBC) for designing slope stability during a seismic event. Based on the original design (Cells 1 & 2), the slopes were designed to a 3:1. The current (2022) slope stability seismic analysis must implement the International Building Code (IBC). The seismic analysis may be impacted by the change from the UBC to IBC. Until the preliminary/final design begins, there is a risk that the side slopes may need to be designed to a 4:1 which will require additional design and construction elements. | During the preliminary/final design, design calculations to meet seismic analysis for slope stability may require a 4:1 slope. | Transfer | Threat | Possible | Major | High (4) | \$ 100,000 \$ 50 |),000 \$ 1,000,1 | 00 120 | 240 | 365 | 3/20/2022 | 4/13/2022 TO3-040601-455: Prepare Final Design (FY23) |
| TRU001 | E.2.03.36.02 | DOE | DOE FPD | Zovi, Bruno | Inability to Meet Site Treatment Plan (STP) Milestone for TRU Waste Reclassified to Mixed Low Level Waste (MLLW) | Currently no treatment capabilities exist to treat transuranic waste (TRU) that has been reclassified as mixed low-level waste (MLLW) associated with sludge reprocessing. | Inability to treat and dispose of MLLW organic sludges (10-100nCi/g) as required by STP milestones. | Transfer | Threat | Almost Certain | Critical | Very High (5) | \$ 2,000,000 \$ 8,50 | ,000 \$ 18,500, | 00 90 | 180 | 270 | 3/20/2022 | 4/13/2022 TO3-050109-4015: AMWTP LLW/MLLW Shipments Offsite TO3 (FY22) TO3-050109-4025: AMWTP LLW/MLLW Shipments Offsite TO3 (FY23) |
| TRU014 | E.2.03.35.02 | DOE | DOE FPD | Byram, George | Unable to Certify/Ship Waste for Disposal at Waste Isolation Pilot Plant (WIPP) | Unable to ceritfy and/or ship waste for disposal. | Waste cannot meet certification requirements for WIPP disposal. | Transfer | Threat | Possible | Serious | Moderate (3) | \$ 50,000 \$ 50 | 0,000 \$ 1,000,0 | 00 30 | 60 | 180 | 3/20/2022 | 4/13/2022 TO3-050102-4170: Packaging and Transportation of Waste FY22 TO3-050102-4190: Packaging and Transportation of Waste FY23 |



TO3 DOE Risk Register

| | | | | | | | | | | | | | | Cost Impact | s | |
|---------|--------------|-----------------------------|------------|----------------------|---|--|--|----------------------|-----------|--------------------------|-------------|---------------|------------|--------------|--------------|------|
| Risk ID | WBS | Responsible Organization | Risk Owner | IEC Risk Back- up | Risk Title | Risk Description | Trigger Event | Handling Strategy | Risk Type | Risk Event Likelihood | Risk Impact | Risk Rating | Best Case | Most Likely | Worst Case | Best |
| TRU016 | E.2.03.32.02 | DOE | DOE FPD | Loftus, Nathan | 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. | The WIPP requires detailed acceptable knowledge that does not exist and/or permit changes. | Transfer | Threat | Rare | Moderate | Low (1) | \$ 300,000 | \$ 500,000 | \$ 1,750,000 | 15 |
| TO3001 | Project Wide | DOE | DOE FPD | Blackford, Ty | Supply Chain Delays and Cost Increases. | Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel. | Emerging national and international events impact supply chain. | Transfer | Threat | Almost Certain | Serious | Very High (5) | \$ 500,000 | \$ 1,000,000 | \$ 2,000,000 | 150 |
| TO3003 | Project Wide | DOE | DOE FPD | Blackford, Ty | Legacy Contamination and/or Ordinance is Discovered in an Area Where it Would Not be Expected | Unexpected legacy contamination and/or ordinance is found during construction, excavation, building upgrades, or maintenance in areas where legacy contamination would not be anticipated. | Legacy contamination and/or ordinance is found during construction, excavation, building, upgrades, or maintenance work scope efforts. | Transfer | Threat | Unlikely | Serious | Low (2) | \$ 300,000 | \$ 500,000 | \$ 800,000 | 20 |
| TO3004 | Project Wide | DOE | DOE FPD | Blackford, Ty | Flaws in Legacy Equipment | The legacy equipment failures result in work execution delays increasing project costs and schedule duration. | Flaws in legacy equipment that occur outside regular preventative maintenance resulting in equipment failure. | Transfer | Threat | Unlikely | Serious | Low (2) | \$ 500,000 | \$ 1,000,000 | \$ 3,000,000 | 60 |

| | Schee | dule Impacts (i | n days) | | | |
|---|-----------|-----------------|------------|--------------------|----------------|--|
| | Best Case | Most Likely | Worst Case | Date Identified | Last update | Activities |
| 1 | 15 | 30 | 90 | 3/20/2022 | 4/13/2022 | TO3-050102-4170: Packaging and Transportation of Waste FY22 |
| - | 150 | 180 | 270 | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
|) | 20 | 60 | 140 | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
| | 60 | 120 | 180 | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |



| Idaho Cleanup Project Programmatic Risk Register | |
|--|--|
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| Updated : 8.17.2 | 2 | Responsi | ble | IEC Risk | 1 | | · · · · · · · · · · · · · · · · · · · | Handling | | Risk Event | 1 | 1 | | Cost Impacts | | Sche | edule Impacts (in | ı days) |] | Data | | |
|------------------|------------|----------|--------------------|-------------|--|---|---|----------|-------------|------------|-------------|-------------|--------------|--------------|-------------|-----------|-------------------|---------|---|-----------|------------|---|
| Risk ID | WBS | Organiza | ion Risk Owner | | Risk Title | Risk Description | Trigger Event | Strategy | Risk Type | Likelihood | Risk Impact | Risk Rating | | Most Likely | Worst Case | Best Case | Most Likely | | Mitigation Actions | | Last updat | |
| CAL001 | E.3.02.06 | IEC | Kimbro, Val | | Infrastructure: Office space for the project is limited | Infrastructure: Office space for the project is limited to the control room and one container office. Projected staffing levels will require additional office space and upgrades to CPP- 691. Limited office space reduces the team's ability to complete work efficiently at the site. Upgrades to CPP-691 and additional office space are a significant cost to the project. Initial estimates for adding additional office space and expanding usable areas at CPP-691 are \$2.3 million.This is currently included in TO3 Integrated Priority List. | | Accept | Threat | Rare | Moderate | 1-Low | \$ 80,000 | \$ 160,000 | \$ 240,000 | 11 | 19 | 30 | Prioritize work and funding. If funding is unavailable to add additional office space or to uggrade the CPP-691 facility, then work will continue at status quo where personnel adjust the schedule or work location. | 3/20/2022 | 4/13/2022 | T03CA-5180 |
| CAL005 | E.3.02.06 | IEC | Kimbro, Val | | Maintaining a steady set of employees has been a huge help and will be able to realize some efficiencies in the process from having these employees. | Maintaining a steady set of employees has been a huge help and will be able to realize some efficiencies in the process from having these employees. Gaining better trained individuals and higher qualified staff helps spread the responsibility. | Change in current set of employees. | Accept | Threat | Rare | Moderate | 1-Low | \$ 40,000 | \$ 600,000 | \$ 600,000 | 5 | 11 | 11 | Continue to actively engage and provide positive leadership, communication, and feedback with the project team. | 3/20/2022 | 4/13/2022 | T03CA-5000 |
| CAL006 | E.3.02.06 | IEC | Kimbro, Val | | Excellent integration between the Calcine Retrieval Project operations and engineering groups, allowing for open and efficient communication. | Excellent integration between the Calcine Retrieval Project operations and engineering groups, allowing for open and efficient communication. | Change in personnel or current execution of conduct of operations. | Accept | Opportunity | Rare | Moderate | 1-Low | \$ 40,000 | \$ 600,000 | \$ 600,000 | -11 | -11 | -5 | Continue to actively engage and provide positive leadership, communication, and feedback with the project team. | 3/20/2022 | 4/13/2022 | T03CA-6180 |
| CAL0070 | E.3.02.30. | DOE DOE | DOE FPD | Kimbro, Val | Change in Definition Interpretation of High-Level Waste-Opportunity | f The high-level waste definition interpretation may impact the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs for calcine processing). | requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste. | Transfer | Opportunity | Rare | Major | 2-Low | \$ (150,000) | \$ (100,000) | \$ (80,000) | -150 | -150 . | 60 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3CA-8000: CRP - Long-Term Strategy for Calcine Disposition Support FY22 TO3CA-8010: CRP - Long-Term Strategy for Calcine Disposition 1-2 Qtrs Sppt FY23 TO3CA-8020: CRP - Long-Term Strategy for Calcine Disposition 3-4 Qtrs Sppt FY23 |
| CAL007T | E.3.02.30. | DOE DOE | DOE FPD | Kimbro, Val | Change in Definition Interpretation of High-Level Waste-Threat | The high-level waste definition interpretation may impact the overall project strategy to process and dispose of calcine waste. For example, if direct disposal becomes an option, then portions or all of calcine may be eligible for this disposal alternative. This, consequently, may impact or reprioritize ongoing work (e.g., retrieval demonstration and conceptual designs | High level waste definition interpretation requires the Department of Energy (DOE) to pursue a different disposition path for the disposal of calcine waste. | Transfer | Threat | Rare | Major | 2-Low | \$ 80,000 | \$ 100,000 | \$ 150,000 | 60 | 150 : | 150 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3CA-8000: CRP - Long-Term Strategy for Calcine Disposition Support FY22 TO3CA-8010: CRP - Long-Term Strategy for Calcine Disposition 1-2 Qtrs Sppt FY23 TO3CA-8020: CRP - Long-Term Strategy for Calcine Disposition 3-4 Qtrs Sppt FY23 |
| CAL008 | E.3.02.30. | DOE | DOE FPD | Kimbro, Val | Delay in the Agreement for Acceptable End-State of CSSF-1 | · · · · · | Future discussions and agreements with Idaho agencies, including Idaho Department of Environmental Quality (IDEQ) and the Environmental Protection Agency (EPA), which will determine the acceptable end state for CSE-1 | Transfer | Threat | Possible | Major | 4-High | \$ 100,000 | \$ 200,000 | \$ 300,000 | 60 | 120 : | 180 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3CA-2130: Prepare CSSF-1 EE/CA |
| CAL010 | E.3.02.05 | IEC | Kimbro, Val | | The planned schedule for the purchase of the drone may be delayed without timely approval by DOE. | The CRP is planning to gather data with a drone flown inside the storage vault to have an accurate understanding of all the obstructions in the CSSF 1 storage vault. Before a drone can be purchased, a risk assessment must be completed and approved by DOE-idaho. The planned schedule for purchase of the drone may be delayed without timely approval by DOE or data collection will be unavailable if a drone is not acquired. If data is not collected, then access riser placement designs cannot proceed. | assessment by DOE to fly the drone in the CSSF | Accept | Threat | Unlikely | Serious | 2-Low | \$ 160,000 | \$ 200,000 | \$ 320,000 | 60 | 60 | 151 | Adjust or reprioritize the schedule to align with DOE approval (if it is not within the planned timeframe). | 3/20/2022 | 4/13/2022 | T03CA-5330 |
| CAL011 | E.3.04.31. | D1 IEC | Zolman, Seabury | | | While filling the acid totes, an acid spill occurs that requires work to stop for cleanup and investigation. | A large volume acid spill while filling totes. | Accept | Threat | Rare | Moderate | 1-Low | \$ 80,000 | \$ 100,000 | \$ 150,000 | 14 | 30 | 151 | Perform necessary thorough reviews of the work control document that is controlling the scope of acid drains to ensure proper controls, cautions, warning, and instructions for securing transfers are in place. | | 4/13/2022 | TO3-RTDFTS |
| CAL012 | E.3.04.31 | D1 IEC | Zolman, Seabury | | delivered, the disposing contractor is unable to process the acid and return | | A disruption or change in schedule or priority at the disposing contractor site. | Accept | Threat | Rare | Moderate | 1-Low | \$ 50,000 | \$ 100,000 | \$ 250,000 | 14 | 30 | 151 | Work with the disposing vendor to coordinate shipments with their availability. | 3/20/2022 | 4/13/2022 | TO3-RTDSD |
| CAL014 | E.3.04.31 | D5 IEC | Zolman, Seabury | | Parts for tank farm front are readily available. | Equivalent parts for the tank farm front end are readily available and easily found, saving cost and schedule. | | Accept | Opportunity | Rare | Moderate | 1-Low | \$ - | \$ 3,000 | \$ 5,000 | -46 | -23 | -7 | Continue to have the system engineer engage with retired SME's that worked on or designed the system. | 3/20/2022 | 4/13/2022 | T03-TFFE1 |
| INTEC001 | E.3.03.07 | IEC | Miller, Zeena | | Unknown radiation levels in existing waste | There are unknown levels of radiation in existing waste to be removed. | Radiation control identifies high rad fields prior to rigging waste. | Accept | Threat | Possible | Minor | 2-Low | \$ 10,000 | \$ 25,000 | \$ 50,000 | 7 | 16 | 21 | Prepare with Lead Blankets and other shielding | 3/20/2022 | 4/13/2022 | TO3-VULCIN.1 |
| INTEC003 | E.3.03.07 | IEC | Miller, Zeena | | Upsized motor procurement is delayed. | The upsized motor procurement for the manipulator is delayed. | Failure to meet expected delivery of 5/2022 | Accept | Threat | Unlikely | Moderate | 2-Low | \$- | \$ - | \$ - | 7 | 30 | 56 | Expedite recovery shipment dates with PaR sub supplier | 3/20/2022 | 4/13/2022 | T03-VUL PAR.1 |



| Updated : 8.17.22 | | mmatic Risk R | egister | | | | | | | | | | r | Cost Impacts | | 1 6-1 | iedule Impacts (in d |) | 1 | | | |
|--------------------|---------------------|---------------|---------------------------|----------|--|--|---|--------------------|---------------------|--------------------|----------------------|----------------------|------------|--------------------------|--------------------------|-----------|----------------------|------------------|--|-------------|-------------------------|---|
| | | Responsible | | IEC Risk | DUL 700 | | | Handling | | Risk Event | DILL I | | | | | | | | | Date | | |
| Risk ID NTEC006 | WBS E.3.03.30.02 | Organization | n Risk Owner Hamilton, | Back-up | Risk Title Inability to perform outages when | Risk Description | Trigger Event 70E requires that the building be shut down | Strategy Accept | Risk Type Threat | Likelihood Rare | Risk Impact Minor | Risk Rating 1-Low | Best Case | Most Likely \$ 50,000 | Worst Case \$ 100,000 | Best Case | Most Likely | Worst Case 30 | Mitigation Actions Put plan and schedule together with operations | Identified | Last updat 4/13/2022 | |
| | 2.3.03.30.02 | | Robert | | planned. | Schedule delays due to operations commitments can affect performing outages when they were planned. Inability to shutdown buildings to perform inspections and maintenance due to operational commitments. | while they inspect their panels. If operations cannot be shut down there will be schedule delays. | Accept | meat | Rate | | 1.00 | 5 25,000 | 5 50,000 | 5 100,000 | | 10 | 50 | commitment and buy in | 5/20/2022 | 4) 13) 2022 | TOSIN-INTECNEPA-2010 |
| NTECO09 | E.3.03.30.02 | IEC | Hamilton, Robert | | Equipment failure and lack of spares cause stoppages. | Equipment failure and or lack of spare parts causes work stoppages, resulting in delays. | A lack of spare parts causes work stoppages. | Accept | Threat | Almost Certain | Minor | 3-Moderate | \$ 50,000 | \$ 250,000 | \$ 500,000 | 7 | 16 | 30 | Preventative Maintenance and Testing | 3/20/2022 | 4/13/2022 | TO3IN-INTECNFPA-2000 TO3IN-INTECNFPA-2010 |
| NTEC011 | E.3.03.30.02 | IEC | Hamilton, Robert | | Unscheduled power outages with long repair times. | Unscheduled power outages with long repair times Transformers are not off-the-shelf items and can require long procurement times depending on the size of the transformer. All production could halt within the affected facility due to a lack of electrical power. | weather conditions without testing or | Accept | Threat | Possible | Moderate | 2-Low | \$ 50,000 | \$ 100,000 | \$ 150,000 | 16 | 30 | 60 | Preventative .Maintenance and Testing | 3/20/2022 | 4/13/2022 | TO3IN-INTECNFPA-2000 TO3IN-INTECNFPA-2010 |
| NTEC013 | E.3.03.31 | IEC | Jones, Clark | | Protected wildlife must be protected or relocated. | There is wildlife which must be protected and or relocated, i.e., nesting migratory birds. | Protected species is discovered on work site and must remain undisturbed for duration nof season | Accept | Threat | Possible | Minor | 2-Low | \$ 40,000 | \$ 133,333 | \$ 200,000 | 5 | 11 | 16 | Remove nests before eggs layed - Protect and relocate as appropriate | 3/20/2022 | 4/13/2022 | TO3INT-RFRP2075 TO3INT-RFRP4060A TO3INT-RFRP4060B |
| NTEC014 | E.3.03.31 | IEC | Jones, Clark | | Work stoppages, either partial or total | Work stoppages, either partial or total impact work. | IEC Work suspended caused by an action outside the CPP-603 project scope. | Accept | Threat | Possible | Minor | 2-Low | \$ 40,000 | \$ 133,333 | \$ 200,000 | 5 | 11 | 16 | Maintianed trained work force and work overtime as needed to recover schedule. | 3/20/2022 | 4/13/2022 | |
| NTEC015 | E.3.03.31 | IEC | Jones, Clark | | Secondary roof design, fabrication, and erection is not allowed to be performed. | Secondary roof design, fabrication, and erection are not allowed to be performed within quality level 4 (QL4) controls. | Quality requirements are changed during the project for the secondary roof structure. | Reduce/Mitigate | Threat | Possible | Moderate | 2-Low | \$ 100,000 | \$ 200,000 | \$ 200,000 | 9 | 18 | 18 | Ensure design is reviewed and approved before fabrication and no changes impact design without approvals. | 3/20/2022 | 4/13/2022 | |
| NTEC016 | E.3.03.31 | IEC | Jones, Clark | | There is no capable crane available. | A crane with capacity and reach is not available to support work. | Suitable crane is not available | Accept | Threat | Possible | Minor | 2-Low | \$ 33,333 | \$ 66,667 | \$ 133,333 | 2 | 5 | 11 | Review lifts and required crane capacity. Identify required crane and reserve early to avoid delays. | 3/20/2022 | 4/13/2022 | TO3INT-RFRP2075 TO3INT-RFRP4060A TO3INT-RFRP4060B |
| NTEC017 | E.3.03.31 | IEC | Jones, Clark | | Supply chain or vendors fail to deliver materials. | Failure of the supply chain or a vendor to deliver supplies or materials causes operations to be halted. | Materials or Vendor failure to deliver on schedule. | Accept | Threat | Possible | Minor | 2-Low | \$ 60,000 | \$ 90,000 | \$ 180,000 | 5 | 9 | 12 | Idenfify long lead materials early and work with procurement and vendors as needed to track and receive materials. | 3/20/2022 | 4/13/2022 | TO3INT-RFP2075 TO3INT-RFRP4060A TO3INT-RFRP4060B TO3RFRP3060 TO3RFRP3060 |
| NTEC018 | E.3.03.31 | IEC | Jones, Clark | | Mixed low-level waste is required to be packaged and transported. | The project waste characterization as mixed low-level waste (MLUW), which is required to be packaged and transported to the Energy Solutions facility in Utah or elsewhere for treatment (stabilization and macro encapsulation) and disposal, will increase the costs significantly and are not included. | Waste identified by WGS as Mixed low-level. | Accept | Threat | Possible | Moderate | 2-Low | \$ 150,000 | \$ 200,000 | \$ 266,667 | 16 | 19 | 25 | Have walkdowns and identify any issues early. Ensure craft are trained to not create mixed waste by waste separation during removal operations. | 3/20/2022 | 4/13/2022 | |
| NTEC019 | E.3.03.31 | IEC | Jones, Clark | | No reinforcement of CPP-603 IFSF roof | No reinforcement of the CPP-603 IFSF roof, adjacent parapet walls, or CPP-603 transite roo surfaces/structures is considered as part of the new IFSF secondary roof installation. | | Accept | Threat | Possible | Minor | 2-Low | \$ 60,000 | \$ 160,000 | \$ 200,000 | 5 | 12 | 18 | Hold Pre-job and discuss design limitations to ensure prospective bidders understand entire scope and limitations. | 3/20/2022 | 4/13/2022 | TO3INT-RFRP4050A TO3INT-RFRP4050B TO3INT-RFRP4050C TO3INT-RFRP4055D TO3INT-RFRP4055 |
| NTEC020 | E.3.03.31 | IEC | Jones, Clark | | Security will not allow access to the roof of CPP-603. | Operations or BEA Physical Security will not allow access to the roof areas of CPP-603 while personnel are escorted by "L" cleared individuals. | Restricted access to the roof ladder with requirements to access the ladder through CPP- 603. | Accept | Threat | Possible | Minor | 2-Low | \$ 13,333 | \$ 25,000 | \$ 50,000 | 2 | 2 | 4 | Met with BEA and IEC security to work out process to access roof ensuring controls are known and "L" cleared escorts are allowed to function as needed to access roof. | 3/20/2022 | 4/13/2022 | TO3INT-RFP2075 TO3INT-RFR4055 TO3INT-RFR4060A TO3INT-RFRP4060B TO3INT-RFRP-3060 TO3RFRP-3040 |
| NTEC021 | E.3.03.31 | IEC | Jones, Clark | | CPP-603 transite roof repairs exceeding 4 in. | CPP-603 transite roof repairs larger than a 4- inch hole are identified. | Holes larger that 4 inches are encountered. | Accept | Threat | Possible | Minor | 2-Low | \$ 80,000 | \$ 150,000 | \$ 300,000 | 9 | 12 | 25 | Identify conditions and advise IEC Engineering, Facility Management and DOE-ID. | 3/20/2022 | 4/13/2022 | TO3INT-RFRP5040 |
| NTEC022 | E.3.03.31 | IEC | Jones, Clark | | CPP-603 roof concrete damage durin demolition or construction | CPP-603 IFSF roof concrete damage occurs during the HEPA demolition or secondary roof installation work. | Roof surface damaged during the work activities. | Accept | Threat | Possible | Moderate | 2-Low | \$ 150,000 | \$ 333,333 | \$ 533,333 | 16 | 30 | 40 | Idenftify conditions and advise IEC Engineering and Nuclear Safety of the conditions and request repair method. Quality level 2 roof structure - Serious issue will stop work and required corrective action plan and implementation. | 3/20/2022 | 4/13/2022 | TO3RFRP-2075 TO3RFRP-4060A TO3RFRP-4060B |
| NTEC023 | E.3.03.31 | IEC | Jones, Clark | | Weather suspends work | Weather conditions suspend work and impact the accomplishment of the planned work activities. | Weather conditions - rain or high winds cause a suspension of work. | Accept | Threat | Possible | Minor | 2-Low | \$ 16,000 | \$ 30,000 | \$ 60,000 | 2 | 2 | 5 | Maintain construction site and materials in safe conditions based on weather conditions. | 3/20/2022 | 4/13/2022 | TO3RRP-2075 TO3RRP-2060 TO3RRP-4060A TO3RRP-4060B TO3RRP-5040 |
| NTEC024 | E.3.03.31 | IEC | Jones, Clark | | The secondary roof design does not meet specification requirements. | meet specification requirements. | Design development and review process shows proposed roof design does not meet specification requirements | Accept | Threat | Possible | Moderate | 2-Low | \$ 160,000 | \$ 200,000 | \$ 360,000 | 12 | 18 | 30 | Work to identify methods to overcome issues and accomplish Design Review meeting requirements. | 3/20/2022 | 4/13/2022 | |
| NTEC025 | E.3.03.31 | IEC | Jones, Clark | | Bidding interest is low. | There is minimal interest in bidding after the | CPP-603 IFSF Secondary Roof RFP receives low | Accept | Threat | Possible | Moderate | 2-Low | \$ 250,000 | \$ 500,000 | \$ 800,000 | 16 | 30 | 46 | Work with procurement organization to identify protential hidders | 3/20/2022 | 4/13/2022 | TO3INT-RFRP4050A |
| NTEC026 | E.3.03.31 | IEC | Jones, Clark | | Unexpected contamination during crane pad preparations | performance spec is issued. The risk of unexpected or unplanned contamination during crane pad preparation requires additional controls. | response Contaminated soil during pad preparation | Accept | Threat | Unlikely | Serious | 2-Low | \$ 300,000 | \$ 500,000 | \$ 800,000 | 25 | 37 | 47 | protential bidders. If a clay layer is encountered, removal of material and replacement with crushed gravel would need to be conducted - Notifiaction to DOE-ID of condition and authorization to proceed Disposal on soil in ICDF. | 3/20/2022 | 4/13/2022 | TO3INT-RFRP-2000 |
| NTEC027 | E.3.03.31 | IEC | Jones, Clark | | The roof installation bid was higher than expected. | A successful bid on the performance of roof install comes back with much higher costs and duration to perform the work. | Bid costs and schedule higher and longer than antiscipated | Accept | Threat | Possible | Moderate | 2-Low | \$ 250,000 | \$ 500,000 | \$ 800,000 | 16 | 30 | 46 | Propose negotiations to identify resolution path | . 3/20/2022 | 4/13/2022 | TO3INT-RFRP4050A |



| Updated : 8.17.22 | | mmatic Risk R | egister | | | | | | | | | -4- | | adada I | da) | 1 | | | |
|---------------------|------------------|---------------|------------------------------|--|---|--------------------|---------------------|------------------------|------------------------|---------------------------|--------------------------|----------------|-------|-------------------|------------------|---|-------------------------|-----------|--|
| | | Responsible | | IEC Risk | | Handling | | Risk Event | DUL | | Cost Impa | | | edule Impacts (in | . / | | Date | | |
| Risk ID INTEC028 | WBS E.3.03.31 | Organization | n Risk Owner Jones, Clark | 1 | Risk Description Trigger Event Building documentation developed for CPP-603 Design review identifies issues which need field | Strategy Accept | Risk Type Threat | Likelihood Possible | Risk Impact Serious | Risk Rating 3-Moderate | | | _ | Most Likely | Worst Case 89 | Mitigation Actions Work to identify methods to overcome issues | Identified 3/20/2022 | | te Activities TO3INT-RFRP4055 |
| 1141 EC028 | 2.3.03.31 | iec | Jones, Clark | design review | to support Design Review. | Ассерг | meat | Possible | Senous | S-Woderate | 3 300,000 3 800,0 | ,000,5 1,000,0 | 30 | 00 | 65 | and accomplish Design Review meeting requirements. | 5/20/2022 | 4/13/2022 | CC0+1771111C01 |
| INTEC029 | E.3.03.31 | IEC | Jones, Clark | Due to structural issues, we are unable to attach to the existing building. | The risk of not being able to attach to the Existing structure issues are identified. existing building with a new roof due to existing building structural issues. | Accept | Threat | Possible | Moderate | 2-Low | \$ 200,000 \$ 320,0 | 000 \$ 400,0 | 00 18 | 25 | 30 | Obtain authorization from DOE-ID and request IEC Engineering analysis as to interface with existing CPP-603 Roof surfaces. | 3/20/2022 | 4/13/2022 | TO3INT-RFRP4050A TO3INT-RFRP4050B TO3INT-RFRP4050C TO3INT-RFRP4050D TO3INT-RFRP40505 |
| INTEC034 | E.3.03.38.06 | IEC | Evans, David | Radiological contamination was four during asphalt and soil removal. | d Radiological contamination was found during asphalt and soil removal. If contaminated soils are encountered, stop work is initialed. Revision to planning is conducted and special removal and disposal practices will be required. | Accept | Threat | Unlikely | Serious | 2-Low | \$ 50,000 \$ 150,0 | 000 \$ 250,00 | 00 19 | 60 | 151 | RCT's will survey prior to work and during all removal activities | 3/20/2022 | 4/13/2022 | TO3IN-PAVEP2-1020 |
| INTEC035 | E.3.03.38.06 | IEC | Evans, David | Weather impacts removal of pavement. | Weather is a factor in the removal of Harsh Weather stoping the project for pavement. If the pavement is removed and the extended periords of time. ground is saturated, work must either stop and allow the ground to dry out, and this would affect cost and schedule. | Accept | Threat | Possible | Minor | 2-Low | \$ 25,000 \$ 50,0 | 000 \$ 100,0 | 00 2 | 4 | 7 | RCT's will survey prior to work and during all removal activities | 3/20/2022 | 4/13/2022 | TO3IN-PAVEP2-1040 |
| INTEC036 | E.3.03.38.06 | IEC | Evans, David | Rental equipment is unreliable. | Reliability of rental equipment: If the asphalt paver or other heavy equipment breaks down, there generally is not a back-up rental available due to the demand for asphalt pavers in the summer months. Waiting for a replacement or for the equipment to get fixed will impact cost and schedule. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 25,000 \$ 50,0 | 000 \$ 100,0 | 00 2 | 7 | 14 | RCT's will survey prior to work and during all removal activities | 3/20/2022 | 4/13/2022 | TO3IN-PAVEP2-1010 |
| INTEC037 | E.3.03.38.06 | IEC | Evans, David | Unexpected utilities or objects are discovered during digging. | Discovering unexpected utilities or objects during the digging process. Unidentified objects or excavation an unnown utility object is or utilities are found during excavation. Stop discovered. work is initiated to review the discovery and determine a path forward. There is an additional impact on cost and schedule for rental and planning. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 30,000 \$ 90,0 | 000 \$ 200,0 | 00 4 | 14 | 30 | Check weather before hand and have possible weather shelters nearby or on site for emergencies | 3/20/2022 | 4/13/2022 | TO3IN-PAVEP2-1010 |
| INTEC038 | E.3.03.38.06 | IEC | Evans, David | A clay layer is discovered beneath th area to be paved or repaired. | e Discovering a clay layer under the area to be paved or repaired will require additional excavation to remove the clay and place it on a compactable base. This will impact the cost and schedule. | Accept | Threat | Possible | Minor | 2-Low | \$ 25,000 \$ 50,0 | 000 \$ 100,0 | 00 7 | 16 | 32 | Ensure operators assigned to the job are familiar and trained to use the equipment provided. | 3/20/2022 | 4/13/2022 | T03IN-PAVEP2-1060 |
| INTEC041 | E.3.03.38.09 | IEC | Heyrend, Trad | DCS electronics failure. | If DCS electronics fail, the system would have to Outdated DCS equipment be updated to electronics that are readily available. The current system is outdated, and replacement parts are very limited. | Accept | Threat | Possible | Minor | 2-Low | \$ 29,167 \$ 41,6 | 667 \$ 83,3 | 33 5 | 11 | 16 | Work with engineering to prioritize high risk equipment and replace them first. | 3/20/2022 | 4/13/2022 | TO3IN-DSC-1000 TO3IN-DSC-1010 TO3IN-DSC-1030 TO3IN-DSC-1030 TO3IN-DSC-1050 TO3IN-DSC-1060 TO3IN-DSC-1080 |
| INTEC042 | E.3.03.38.09 | IEC | Heyrend, Trad | Unexpected or unplanned contamination | The risk of unexpected or unplanned Contamination discovered during installation of contamination. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 8,333 \$ 16,6 | 667 \$ 33,3 | 33 2 | 5 | 11 | If equipment is in an area with suspected contaimnation RCT's will survey prior to work and during all removal activities | 3/20/2022 | 4/13/2022 | TO3IN-DSC-1020 TO3IN-DSC-1040 TO3IN-DSC-1060 |
| INTEC044 | E.3.03.38.07 | IEC | Heyrend, Trad | HVAC engineering and installation bids were greater than expected. | A successful bid on the performance of HVAC Bid costs and schedules are higher and longer engineering and installation comes back with than anticipated. The work. Due to rising inflation, higher gas prices, a global shortage of electronic chips, etc. | Accept | Threat | Possible | Moderate | 2-Low | \$ 150,000 \$ 300,0 | 000 \$ 600,0 | 00 14 | 30 | 89 | Examine work to see if in-house craft can perform more scope at a lower cost. | 3/20/2022 | 4/13/2022 | TO3IN-BHAHVAC2-1010 |
| INTEC045 | E.3.03.38.07 | IEC | Heyrend, Trad | Asbestos was discovered during demolition and installation. | The risk of asbestos being Asbestos abatement required discovered during demo and installation requires additional controls. | Accept | Threat | Possible | Moderate | 2-Low | \$ 50,000 \$ 100,0 | 000 \$ 200,0 | 00 14 | 30 | 60 | Issue a work order early on the process to test suspect materials for asbestos. | 3/20/2022 | 4/13/2022 | TO3IN-BHAHVAC2-1030 |
| INTEC046 | E.3.03.38.07 | IEC | Heyrend, Trad | Existing ducting is not in good condition. | The risk of the existing ducting not being in good condition requires new duct work. | Accept | Threat | Possible | Moderate | 2-Low | \$ 30,000 \$ 80,0 | 000 \$ 150,0 | 00 14 | 30 | 60 | Perform walks downs prior to issuing RFP's to verify condition of existing ducting. Put controls in the work order to minimize damage while work is being performed. | 3/20/2022 | 4/13/2022 | TO3IN-BHAHVAC2-1060 |
| INTEC048 | E.3.03.37 | IEC | Evans, David | Radiological contamination was four during asphalt and soil removal. | d Radiological contamination was found during asphalt and soil removal. If contaminated soils are encountered, work is immediately stopped. Revision to the plan is being conducted and special removal and disposal practices will be required. | Accept | Threat | Rare | Serious | 2-Low | \$ 50,000 \$ 150,0 | 000 \$ 250,0i | 00 19 | 60 | 151 | Minimize excavation depths and segregate waste. | 3/20/2022 | 4/13/2022 | T03IN-WWS-2110 |
| INTEC049 | E.3.03.37 | IEC | Evans, David | The equipment is not adequate to accomplish the scope. | The equipment is inadequate to accomplish the Access to some structure requires a larger work scope (the crane is not rated to lift pieces into place). The need for larger equipment and more material is needed for a more complex scope. | Accept | Threat | Possible | Moderate | 2-Low | \$ 140,000 \$ 150,0 | 000 \$ 160,0 | 00 7 | 19 | 63 | Rent a larger crane for the minimum time required to execute the task. | 3/20/2022 | 4/13/2022 | TG3IN-WWS-2020 |
| INTEC050 | E.3.03.37 | IEC | Evans, David | Waste requires disposal at an offsite location. | Waste (hazardous, steel, wood, paint Material is determined to go to a classified containing lead or chromium) requires disposal an offsite location. | Accept | Threat | Unlikely | Serious | 2-Low | \$ 930,000 \$ 1,000,C | 000 \$ 1,070,0 | 00 19 | 40 | 60 | Segregate waste to minimize amount. | 3/20/2022 | 4/13/2022 | T03IN-WWS-2070 |
| INTEC051 | E.3.03.37 | IEC | Evans, David | | An engineering contractor does not provide adequate or timely support (e.g. shop drawing reviews, construction submittals), resulting in delays and additional costs. | Accept | Threat | Unlikely | Serious | 2-Low | \$ 480,000 \$ 500,0 | 000 \$ 530,0 | 00 19 | 35 | 70 | Use Fluor engineers, and work closely with subcontractor. | 3/20/2022 | 4/13/2022 | T03IN-WWS-2010 |
| INTEC052 | E.3.03.37 | IEC | Evans, David | Material resources are not available. | Material resources are not readily available. Material resources are not readily available resulting in increased costs and schedule delays. | Accept | Threat | Unlikely | Serious | 2-Low | \$ 100,000 \$ 100,0 | 000 \$ 110,0 | 00 19 | 60 | 89 | Plan ahead and order materials as soon as design is completed. | 3/20/2022 | 4/13/2022 | T03IN-WWS-2020 |
| INTEC053 | E.3.03.37 | IEC | Evans, David | Hazardous material requires level "C "B", or "A" personnel protective equipment. | ", Hazardous material requires Levels "C", "B", or "A" personal protective equipment to perform Levels "C", "B' or "A" personal protective the replacement, upgrading, or rehabilitation of infrastructure. | Accept | Threat | Rare | Serious | 2-Low | \$ 930,000 \$ 1,000,0 | 000 \$ 1,070,0 | 00 30 | 60 | 89 | Perform work order walkdowns early. | 3/20/2022 | 4/13/2022 | TO3IN-WWS-2020 |



| | | Responsib | le | IEC Risk | | | 1 | Handling | | Risk Event | | 1 | | Cost Impacts | 1 | Sc | chedule Impacts (| in days) | | Date | 1 | |
|---------|--------------|------------|--------------------|--------------------|---|--|--|-----------------|-----------|------------|-------------|-------------|--------------|--------------|--------------|-----------|-------------------|------------|---|-------------|-----------|--|
| Risk ID | WBS | Organizati | ion Risk Owner | Back-up | Risk Title | Risk Description | Trigger Event | Strategy | Risk Type | Likelihood | Risk Impact | Risk Rating | Best Case | Most Likely | Worst Case | Best Case | e Most Likely | Worst Case | Mitigation Actions | Identified | | |
| 054 | E.3.03.37 | IEC | Evans, David | | Damage or contamination of leased equipment | Damaging or contaminating leased equipment, resulting in replacement of equipment and disposal costs, will impact cost and schedule. | Damage to equipment or contamination found on equipment that cannot be free released. | Accept | Threat | Unlikely | Moderate | 2-Low | \$ 100,000 | \$ 300,000 | \$ 500,000 | D 14 | 19 | 60 | Perform surveys of potentially contaminated areas. | 3/20/2022 | 4/13/2022 | T03IN-WWS-2020 |
| 056 | E.3.03.38.05 | IEC | D. Lords | | Charging towers are delivered late. | Late delivery of charging towers. | Charging stations are anticipated to be in high demand potentially delaying delivery. | Accept | Threat | Unlikely | Serious | 2-Low | ş - | \$ 5,000 | \$ 5,000 | 30 | 60 | 89 | Verify delivery times with vendor prior to finlaizinf the schedule. | 3/20/2022 | 4/13/2022 | TO3-INJOLT1002 |
|)57 | E.3.03.30.02 | IEC | Rob Hamilton | | PMs require outages. | | Getting access to those panels could be difficult if the outage can't occur during normal working hours resulting in increased costs due to overtime. | | Threat | Possible | Minor | 2-Low | \$ 25,000 | \$ 50,000 | \$ 100,000 | 0 7 | 16 | 30 | Attempt to schedule work during the normal work week, or plan far enough ahead to shift personnel schedules to not require OT if performed outside the normal work week. | 3/20/2022 | 4/13/2022 | TO3IN-INTECNFPA-2000 TO3IN-INTECNFPA-2010 |
| 158 | E.3.03.39 | IEC | Stacey Lilya | | The ALT #1 fire panel is either incomplete or inoperable. | The ECS ALT # 1 fire panel conversion design and component device list provided are incomplete and/or do not function to allow the design to operate correctly. | Subcontractor does not provide functional design package based on installed configuratio for each fire panel conversion. | Reduce/Mitigate | Threat | Possible | Serious | 3-Moderate | \$ 200,000 | \$ 400,000 | \$ 600,000 | 0 30 | 46 | 60 | Complete design and review in TO2. Have Subcontractor accomplish field demonstration using INTEC equipment. | 3/20/2022 | 4/13/2022 | TO3INTECFA02 |
| 059 | E.3.03.39 | IEC | Stacey Lilya | | ECS wireless system failure. | Existing ECS wireless system failure causes the work to be stopped-and impacts the accomplishment of the fire panel conversion | Failure of the INTEC ECS which stops the fire panel conversion work progress and testing. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 26,000 | \$ 160,000 | \$ 240,000 | 0 7 | 14 | 30 | Have an ECS recovery plan in place to repair the system. | 3/20/2022 | 4/13/2022 | TO3INTECFA02 |
| 060 | E.3.03.39 | IEC | Stacey Lilya | | BEA reprograming was not complete in a timely manner. | d Required BEA reprograming at the Central Fire Station for each ECS panel conversion is not completed in a timely manner. | BEA does not reprogram and work to test system is suspended. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 10,000 | \$ 80,000 | \$ 120,000 | 0 0 | 7 | 14 | Have early communications with BEA and have needed necessary documentation in place to allow coordination between IEC and BEA for | 3/20/2022 | 4/13/2022 | TO3INTECFA03 |
| 061 | E.3.03.39 | IEC | Stacey Lilya | | The supply chain or vendors fail to deliver materials. | Supply chain or vendor failure to deliver suppliers or materials/components suspends work. | Failure to deliver to support planned work. | Reduce/Mitigate | Threat | Possible | Moderate | 2-Low | \$ 50,000 | \$ 200,000 | \$ 480,000 | 0 14 | 30 | 60 | needed programing. Identify long lead items and order materials eariler - work with procurement and suppliers as needed. | 3/20/2022 | 4/13/2022 | TO3INTECFA02 |
| 02 | E.3.06.34.01 | DOE | DOE FPD | Nahay, Jordan T | Legacy Designs Cause Activity Delays | Legacy design issues during construction can lead to increased schedule delays and project costs. | Interruption in the original planned schedule due to unforseen issues with legacy designs. | Transfer | Threat | Likely | Major | 4-High | \$ 500,000 | \$ 1,000,000 | \$ 3,000,000 | 0 60 | 120 | 180 | Propose Transfer to DOE | 3/20/2022 | | TO3-WTUWDR100: Install Wet Decon Rebuild (Dispersion Mill) TO3-WTUSPT140: Operate IWTU Plant with 100% SBW |
| 001 | E.3.06 | IEC | Nahay, Jordan T | | The Canister Decon System will not decontaminate the canisters to acceptable levels for transfer. | The Canister Decon System will not effectively or efficiently decontaminate the canister to levels acceptable for transfer between the Can Fill Cells and the canister storage vault and/or contamination spreads during can fill operations and the robotic decon system cannot remove sufficient contamination from the outside of a canister. This will most likely cause a spread of contamination outside of the can fill cells, thereby requiring additional contamination control mitigation. | Contamination levels exceed established limits and/or spreads outside of the can fill cells | Accept | Threat | Possible | Moderate | 2-Low | \$ 250,000 | \$ 500,000 | \$ 750,000 | 0 14 | 30 | 46 | A contamination control mitigation was developed and implemented in Outage J in preparation for this event. Therefore the severity and duration of the risk impact has been reduced from the previous risk register. | 3/20/2022 | 4/13/2022 | TO3-WTUOP\$160 |
| 12a | E.3.06 | IEC | Nahay, Jordan T | | The estimated duration of TO3 activities has been exceeded. | TO-3 activity duration estimates are exceeded due to IEC design, construction, or operation. | Unexpected issues (e.g. procurement delays, resource availability due to higher priority project work, engineering, etc.). | Reduce/Mitigate | Threat | Likely | Major | 4-High | \$ 500,000 | \$ 1,000,000 | \$ 3,000,000 | 0 60 | 121 | 180 | Assign dedicated outage manager with dedicated task leaders. Develop and managed to detailed cost and schedules using EVMS. Assign top talent to engineering, outage management and construction. Focus the management attention on the riskiest activities (e.g. the critical path). Projects that are large in scope and complexity will be evaluated for utilizing a modified work schedule of 5 or 6 day work weeks. | 3/20/2022 | 4/13/2022 | TO3-WTUOPS160 |
| 03 | E.3.06.34.01 | DOE | DOE FPD | Nahay, Jordan T | Legacy Equipment Failure Prevents Transfers of Sodium Bearing Waste (SBW) | Unexpected legacy issues or failure of legacy equipment will occur on systems that cannot be tested prior to actual transfers of SBW from INTEC to IWTU. | Unexpected failure of legacy equipment or components that impact the functionality of the SBW Transfer system. | Transfer | Threat | Possible | Major | 4-High | \$ 500,000 | \$ 750,000 | \$ 1,000,000 | 0 90 | 180 | 270 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3-WTUSPT120: Operate IWTU Plant with 10% SBW, 90% Simular TO3-WTUOPS530A: Interim Processing of WM-189 FY22 |
|)3a | E.3.06 | IEC | Nahay, Jordan T | | Equipment failure or issues prevent testing SBW from INTEC to IWTU. | | Unexpected equipment or component failure on the SBW Transfer system | Reduce/Mitigate | Threat | Possible | Major | 4-High | \$ 500,000 | \$ 750,000 | \$ 1,000,000 | 0 89 | 180 | 270 | Maintain PMs and system inspections of those components as well as verify operability (when feasable) prior to the System Performance Test. Perform Engineering System Health reviews and address issues when possible. | | 4/13/2022 | TO3-WTUOPS160 |
| 04 | E.3.06 | IEC | Nahay, Jordan T | | The DOE Readiness Assessment for Rad Ops results in findings that require corrective actions. | | to start System Performance Test by more than | Accept | Threat | Possible | Moderate | 2-Low | \$ 50,000 | \$ 75,000 | \$ 100,000 | 0 14 | 30 | 46 | Increase rigor of reviews by performing Radiological proficiency runs and CRA prior to starting DOE RA. | 3/20/2022 | 4/13/2022 | TO3-WTUOPS160 |
| 5 | E.3.06 | IEC | Nahay, Jordan T | | Replacement PGF filter elements and modifications do not function as anticipated. | The selected replacement PGF filter elements and associated PGF modifications do not function as anticipated, requiring plant modifications and/or alternative filter media. | Filters degrade or do not perform as designed. | Reduce/Mitigate | Threat | Unlikely | Major | 3-Moderate | \$ 80,000 | \$ 250,000 | \$ 2,000,000 | 0 89 | 121 | 151 | Performed extensive testing at Hazen Pilot Plan and perform post confirmatory run inspection. | t 3/20/2022 | 4/13/2022 | T03-WTU0P5160 |
| 16 | E.3.06 | IEC | Nahay, Jordan T | | Legacy designs, construction, and operational issues with DMR fluidization and PGR filters are revealed. | The risk that additional legacy (pre-IEC) design, construction and/or operational issues with plant process equipment beyond DMR fluidization and PGF filters are revealed during sustained plant simulant runs (e.g., Auger Grinder, OGF, CRR, PHVF, PRF, OGC, Blowers, HEPA, GAC). | Discovery by inspection or failure. | Reduce/Mitigate | Threat | Unlikely | Major | 3-Moderate | \$ 80,000 | \$ 250,000 | \$ 2,000,000 | 0 89 | 121 | 151 | Perform final simulant Runs and System Performance Test to identify problems and verify solutions perform as planned. Continued monitoring of plant's performance and increased radiological surveys upon the introduction of SBW. | 3/20/2022 | 4/13/2022 | TO3-WTUOPS160 |
| 07 | E.3.06.34.02 | DOE | DOE FPD | Nahay, Jordan T | | The Idaho Department of Environmental t Quality (IDEQ) does not approve the RCRA permit modification which requires additional revisions of PLN-3298 IWTU System Performance Test Plan. | IDEQ determines that the RCRA permit modificaion is inadequate, requiring revision of PLN-3298 and resubmittal to IDEQ; extending beyond the review period. | Transfer | Threat | Unlikely | Serious | 2-Low | \$ 25,000 | \$ 50,000 | \$ 100,000 | 0 45 | 60 | 75 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3-WTUOP5530B: Interim Processing of WM-189 FY23 |
| 08a | E.3.06.34 | IEC | Nowak, Joel T | | Delivery of CO2, N2, O2, and other consumables is interrupted during confirmatory or system performance testing. | | Delays in procurement preparations. | Reduce/Mitigate | Threat | Unlikely | Critical | 3-Moderate | \$ 2,900,000 | \$ 5,000,000 | \$ 7,000,000 | 0 16 | 30 | 46 | Pursuing alternate nitrogen source to reduce reliance on subcontracted vendors as primary supply, however CO2 and O2 will still have this as an on-going risk. | 3/20/2022 | 4/13/2022 | TO3-WTUOPS160 |
| 08b | E.3.06.34 | IEC | Nowak, Joel T | | Delivery of CO2, N2, O2, and other consumables is interrupted. | Delivery of CO2, N2, O2, or other consumables is interrupted during confirmatory run or system performance testing. | Delays in procurement preparations | Accept | Threat | Unlikely | Moderate | 2-Low | \$ 100,000 | \$ 200,000 | \$ 300,000 | 0 16 | 30 | 46 | | 3/20/2022 | 4/13/2022 | TO3-WTUFACO22 TO3-WTUFACO23 |



| Updated : 8.17.22 | | mmatic Risk Regi | | | | | | | | | | | Cost Impacts | | Soho | dule Impacts (i | n davs) | 7 | | |
|-------------------|---------------|------------------|-----------------------------|---|--|---|-----------------------------|---------------------|------------------------|-------------------------|----------------------|------------------------|-----------------|-----------------------|-----------------|-------------------|------------------|--|-----------|--|
| * | WIRG | Responsible | DI LO | IEC Risk | | | Handling | | Risk Event | | | | | | | | | | Date | |
| Risk ID /TU010 | WBS E.3.06 | Organization | Risk Owner Nahay, Jordan | Back-up Risk Title The simulant is not fully | Risk Description Simulant is not fully representative of actual | Trigger Event Introduction of actual waste causes plant | Strategy Reduce/Mitigate | Risk Type Threat | Likelihood Unlikely | Risk Impact Moderate | Risk Rating 2-Low | Best Case \$ 80,000 | | Vorst Case 750,000 | Best Case 16 | Most Likely 30 | Worst Case 46 | Mitigation Actions Ramp up waste feed percentage (vs. simulant) | | Last update Activities 4/13/2022 TO3-WTUOPS160 |
| 10010 | E.3.00 | 120 1 | T | representative of actual waste. | waste. For example, mercury and heavy metals have not been included in the simulant. This may result in system performance problems causing delays. | | Reduce/mitigate | e meat | Unikely | Moderate | 2-LOW | \$ 80,000 | \$ 250,000 \$ | /50,000 | 16 | 30 | 40 | during System Performance Test. Review original test results for accuracy and completeness. | 5/20/2022 | 4/15/2022 103-W100P5160 |
| VTU012 | E.3.06.32.02 | IEC C | Oliver, David M | Winter weather covering does not adequately protect joints and surfaces. | Winter weather covering does not adequately protect joints and surfaces, causing additional repairs to be required. | | Accept | Threat | Possible | Minor | 2-Low | \$ 15,000 | \$ 30,000 \$ | 150,000 | 7 | 14 | 60 | Covering during periods of inclement winter weather was the mitigation strategy. | 3/20/2022 | 4/13/2022 TO3-WTUPAIN400 |
| /TU013 | E.3.06.32.02 | IEC C | Oliver, David M | Repairs to the South Vault Storage pad do not fix air pallet movement. | Repairs to the South Vault Storage pad do not fix air pallet movement issues. This would also prevent the construction of new vaults in this | Air pallet deflates during Vault transfer. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 7,500 | \$ 30,000 \$ | 150,000 | 4 | 7 | 30 | Repairs to north Vault Storage Pad worked well. | 3/20/2022 | 4/13/2022 TO3-WTUPAIN400 |
| TU014 | E.3.06.32.03 | IEC C | Oliver, David M | | New vibratory feeder trays in the additive feed system do not provide consistent feeds to the DMR and CRR and cause an unplanned plant | | Accept | Threat | Unlikely | Minor | 2-Low | \$ 75,000 | \$ 100,000 \$ | 150,000 | 0 | 4 | 7 | New design will be tested prior to installation in plant. | 3/20/2022 | 4/13/2022 TO3-WTUOP5160 |
| /TU015 | E.3.06.32.06 | IEC C | Oliver, David M | | shutdown. Temporary simulant tanks are not emptied to the heel during the confirmatory run, causing additional cleanout before removal from the product storage building. This could delay RadOps. | Simulant tanks are not emptied to the heel during the Confirmatory Run. | Accept | Threat | Unlikely | Minor | 2-Low | \$ 15,000 | \$ 30,000 \$ | 60,000 | 7 | 14 | 30 | Ensure all temporary simulant tanks are emptied to the heel during the Confirmatory Run. | 3/20/2022 | 4/13/2022 TO3-WTUSIMT400 |
| TU017 | E.3.06.32.10 | IEC C | Oliver, David M | Software applications need to be revised. | Testing of software reveals applications that will not work and need to be revised. | Testing data unsatisfactory | Reduce/Mitigate | e Threat | Unlikely | Serious | 2-Low | \$ 50,000 | \$ 100,000 \$ | 250,000 | 30 | 60 | 121 | Enlist help of subcontracted outside IT organization to develope alternative application that will work with current software. | | 4/13/2022 TO3-WTURDCS410 |
| TU030 | E.3.06.32.30 | IEC C | Oliver, David M | The wet decon system rebuild does not function as designed. | The wet decon rebuild has issues that do not allow the wet decon system to fully function as designed. | | Accept | Threat | Possible | Serious | 3-Moderate | \$ 50,000 | \$ 100,000 \$ | 150,000 | 30 | 60 | 89 | Upon completion of project testing significant spares were ordered and have been recieved. Redundant colloid mills and strainers. | 3/20/2022 | 4/13/2022 TO3-WTUWDR100 |
| VTU040 | E.3.06.34.04 | IEC P | Nowak, Joel T | Environmental constraints limit the | Environmental constraints limit the operability | NOx approach limits . | Reduce/Mitigate | e Threat | Possible | Moderate | 2-Low | \$ 12,500 | \$ 25,000 \$ | 75,000 | 16 | 30 | 46 | Parallel path by pursuing electrical powered | 3/20/2022 | 4/13/2022 T03-WTUN25K120 |
| IULTI009 | E.2.04 | IEC | | operability of N2 skids(s). Delay to the Idaho Settlement Agreement or site treatment agreement. | | | d Accept | Threat | Possible | Critical | 4-High | \$ 1,000,000 | \$ 2,000,000 \$ | 3,000,000 | 366 | 509 | 730 | units. | 3/20/2022 | T03-WTUN25K150 4/13/2022 T03-020430-1047 |
| ULTI010 | E.4.02.30 | IEC C | Chapple, Jason | Weather impacts D&D | Weather impacts on D&D. Managing liquids in the winter months results in shifting crews to different buildings to mitigate weather impacts Abnormal weather or schedule changes may limit the seasonal appropriate timeframe for weather- or temperature-sensitive D&D activities. | Work execution is impacted by schedule shift or weather. | Accept | Threat | Unlikely | Serious | 2-Low | \$- | \$ 500,000 \$ | 750,000 | 30 | 60 | 89 | Manage the integration of four exhumation facilities to mitigate weather as much as possible. | 3/20/2022 | 4/13/2022 TO3-3ARPIII-3030 |
| ULTI011 | E.4.02.30 | IEC (| Chapple, Jason | Placement of debris from building D&D is contingent on regulatory approval of the CAP design. | Placement of debris from building D&D is contingent on regulatory approval of the CAP design. | Delay experienced in regulatory approval of the CAP design. | e Accept | Threat | Unlikely | Moderate | 2-Low | \$ - | \$ - \$ | 250,000 | 16 | 30 | 89 | Work to ensure that the CAP redesign subcontractor makes progress sufficiently that the D&D plan can be submitted to the Agencies in sufficient time to secure their Approval to no | 3/20/2022 | 4/13/2022 TO3-1ARPV-5245 |
| JLTI012 | E.4.02.30 | IEC (| Chapple, Jason | Personnel attrition near the end of a 3-year window | Near the end of the next 3-year window, when people sense the project is nearing completion they tend to leave to move on to a new project which can cause issues in completing the latter part of the 3-year window. | 5 | Accept | Threat | Rare | Moderate | 1-Low | \$ - | \$ 300,000 \$ | 500,000 | 16 | 30 | 89 | impact the schedule. Monitor staffing to hire if attrition is experienced. | 3/20/2022 | 4/13/2022 TO3-2ARPIV-4180 |
| JLTI015 | E.4.06.30 | IEC S | Sorenson, Travis | | The NRF reactor compartments and vessels have not been included in the T&FR due to not knowing for sure if they will be going into the ICDF new Cell 3. It is unknown if the weights of those compartments and vessels will affect the design of the cell, number or type of liners, materials used, or depth of the hole. If these items are added after the fact, it could constitute significant design changes affecting cost and schedule. | | Accept | Threat | Rare | Major | 2-Low | \$ - | \$ 100,000 \$ | 500,000 | 0 | 121 | 180 | Having Jacobs Engineering design for the NRF Compartments and vessels as if they are going to be placed inside the new cell 3. | 3/20/2022 | 4/13/2022 T03-040601-455 |
| ILTI016 | E.4.06.30 | | Sorenson, Travis | Seismic design requirements have changed. | Jacob's Engineers noted that seismic design requirements have changed in the last 20 years. LC-3 is assumed to have the same side slopes as the existing landfill (3:1) but slope stability for seismic may require a 4:1 side slope. Assuming the same top berm dimensional area, the change in side slope will reduce the capacity by 150,000 m3 (ROM) and the bottom area of the landfill will be limited to ~400'x400' area. A re-design may be required. | | Accept | Threat | Unlikely | Critical | 3-Moderate | \$ 50,000 | \$ 500,000 \$ | 1,000,000 | 121 | 240 | 366 | increase the overal foot print of the new cell 3 to accomidate the side slopes and maintain the foot print fo rthe base of the landfill. | 3/20/2022 | 4/13/2022 T03-040601-455 |



| Updated : 8.17.22 | | | | | | | | | | | | | | Cost Impacts | | Sch | edule Impacts | (in days) | 1 | | |
|-------------------|--------------|-----------------------------|-----------------------|---------------------|--|---|---|----------------------|-----------|--------------------------|-------------|-------------|--------------|--------------|--------------|------|---------------|-----------|---|--------------------|--|
| Risk ID | WBS | Responsible Organization | n Risk Owner | IEC Risk Back-up | Risk Title | Risk Description | Trigger Event | Handling Strategy | Risk Type | Risk Event Likelihood | Risk Impact | Risk Rating | Best Case | Most Likely | Worst Case | | Most Likely | | Mitigation Actions | Date Identified | Last update Activities |
| VICDF001 | E.4.06.30.02 | _ | DOE FPD | Sorenson, Travis | Changes to International Building Codes Impact Idaho CERCLA Disposa Facility (ICDF) Design | The original design of the ICDF Cells 1 & 2 (200 | During the preliminary/final design, design calculations to meet seismic analysis for slope stability may require a 4:1 slope. | Transfer | Threat | Possible | Critical | 4-High | \$ 100,000 | | | | 240 | 365 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 TO3-040601-455: Prepare Final Design (FY23) |
| NRC001 | E.1.03.01 | IEC | Long, Jeff | | NRC regulations or directions are revised or updated. | might require us to revise programs, procedures, or implement various other | Potential for receipt of NRC direction, request for information, or other confirmatory order | Reduce/Mitigate | Threat | Possible | Serious | 3-Moderate | \$ 100,000 | \$ 500,000 | \$ 1,000,000 | 0 30 | 89 | 366 | Develop estimates for similar activities based on actuals from previous occurrences. If condition arises, submit estimates to Sr. Management and DOE. | | 4/13/2022 |
| NRC002 | E.1.03.01 | IEC | Long, Jeff | | Amendments to the ISFF license | measures. Right now, this project is above the funding line, but it is expected that some direction will be received from the NRC or DOE to amend the ISFF license for an additional 20 years. (In fact, just a week or so ago, we did receive direction from NRC to proceed with license amendment/renewal and that we may also need to file for an exemption from the regulation. (We are still awaiting written direction from DOE.) | | Reduce/Mitigate | Threat | Possible | Major | 4-High | \$ 500,000 | \$ 1,000,000 | \$ 2,000,000 | 0 47 | 144 | 200 | Upon receipt of DOE direction, develop associated recommendations, cost estimate and schedule estimate of additional requirements for DOE's consideration. Take appropriate actions to procure subcontractors once DOE provides the necessary direction. | 3/20/2022 | 4/13/2022 |
| NRC003 | E.1.03.01 | IEC | Long, Jeff | | Aging conditions of facilities | There are aging conditions at both facilities. Continued weathering and degradation is likely to require additional repairs and maintenance to concrete, paint, and other coatings. | | Reduce/Mitigate | Threat | Possible | Major | 4-High | \$ 50,000 | \$ 500,000 | \$ 1,500,000 | 0 16 | 96 | 144 | As aging requirements are identified, engineering to develop recommendations for repairs including cost estimates and schedules. Provide this information to DOE to request additional funding if necessary. | 3/20/2022 | 4/13/2022 |
| NRC004 | E.1.03.01 | IEC | Long, Jeff | | Surveillance requirements fail to meet established specifications. | On-going surveillance requirements may fail to meet established specifications, requiring specific protective and corrective actions to be taken. As an example, facilities may fail leak testing, hydrogen testing, radiological monitoring, etc. | Equipment failure found turing performance of Tech. Spec. surveillances. | Reduce/Mitigate | Threat | Rare | Moderate | 1-Low | \$ 10,000 | \$ 500,000 | \$ 2,000,000 | D 4 | 16 | 96 | Procedures are already developed and approved for response to potential leaks and tech spec violations. All personnel are trained and equipment is on hand for this eventuality. | 3/20/2022 | 4/13/2022 |
| NRFCC013 | E.1.21.04 | IEC | Rodriguez, Jose | | Core Car: Insufficient number of trained personnel | Core Car: An insufficient number of trained personnel are available to support the project. | Morning Call-Ins or redirecting of Core Car trained personnel to other priorities prevents operations from starting. | Reduce/Mitigate | Threat | Possible | Major | 4-High | \$ 200,000 | \$ 400,000 | \$ 500,000 |) 89 | 180 | 240 | Cross train/hire dedicated staff to support project. | 3/20/2022 | 4/13/2022 TO3-INSNCCTMP100 |
| NRFDD002 | E.5.01.30 | IEC | Burtenshaw, Shawna | | Unanticipated contamination impact work performance. | Is Building Characterization: 1. Unexpected contamination has an impact or work performance and planning. 2. Beryllium training and medical qualifications for workers impact work performance. | 1.Contamination was encountered 2.Beryllium was encounter | Accept | Threat | Unlikely | Serious | 2-Low | \$ 125,000 | \$ 250,000 | \$ 373,000 | 30 | 60 | 89 | Areas are defined as CAs, HRAs, but extent of contamination is not quantified. Conservative basis for ACM abatement and mechanical strip-out and demolition has been taken. Waste quantities are estimated and are valid change request basis. | 3/20/2022 | 4/13/2022 to3-050130-1027 |
| NRFDD003 | E.5.01.30 | IEC | Burtenshaw, Shawna | | Asbestos Abatement | Asbestos Abatement: 1.Asbestos abatement has traditionally been the most overrun cost and schedule activity on DOE decommissioning projects. Insufficient information and access were provided to establish a reasonable subcontractor quote. 2. No available water source (provided by NR) 3. There is no on-site ACM disposal area. | 1.Asbestos shower trailer not delivered on schedule 2.Water supply for asbestos trailer not available from NR 3.Asbestos Waste does not have on site disposal path | Reduce/Mitigate | Threat | Possible | Serious | 3-Moderate | \$ 100,000 | \$ 200,000 | \$ 300,000 | 0 30 | 60 | 89 | 1.Conservative quantity assumptions 2.Basis for change to TSI quantities 3.Obtain external potable water source 4.Ship ACM waste offsite | 3/20/2022 | 4/13/2022 T03-050130-1037 |
| NRFDD004 | E.5.01.30 | IEC | Burtenshaw, Shawna | | There is no Waste Laydown Area. | Waste Laydown Area Not Available 1. MLLW shipping to NNSS/WCS is restricted. 2. The BEA landfill is not able to accept ACM waste. 3. Space is available at the NRF S1W site which allows container staging, movement, and shipping. | 1. Waste shipping is delayed 2. ACM waste cannot be disposed of at CFA landfill (BEA) 3. Waste staging area is not available | Reduce/Mitigate | Threat | Possible | Serious | 3-Moderate | \$ 1,200,000 | \$ 2,400,000 | \$ 3,600,000 | 0 46 | 89 | 135 | Change request – medium potential Utilizing a separate loaded waste container area (200' x 200') allows waste staging and shipping to be separated from demolition and filing containers. Qualify the proposal to state that outdoor staging of compliant shipping containers authorized. | 3/20/2022 | 4/13/2022 TO3-050130-1038 |
| NRFDD005 | E.5.01.30 | IEC | Burtenshaw, Shawna | | Seismic Delays | Seismic Delays: Planned activities and methods for demolition affect NR operations due to excessive vibration. | Vibration from work activities become unacceptable to NR | Reduce/Mitigate | Threat | Likely | Minor | 2-Low | \$ 91,500 | \$ 100,000 | \$ 109,750 |) 4 | 7 | 11 | Integrate work activities with NR to minimize potential conflicts and impacts. Schedule critical demo activities during Site non-working hours to minimize impacts Allow additional duration for demolition to mitigate non-working days. | 3/20/2022 | 4/13/2022 T03-050130-1026 T03-050130-1027 T03-050130-1028 T03-050130-1028 |



| Updated : 8.17.22 | | mmatic Risk Re | | | | | | | | | I | | Cost Impacts | | Schedule | Impacts (in days) | | | | |
|-------------------|--------------|-----------------------------|-----------------------|--|--|--|----------------------|-----------|--------------------------|-------------|-------------|------------|--------------|--------------|-----------|--------------------|---|--------------------|-------------|--|
| Risk ID | WBS | Responsible Organization | Risk Owner | IEC Risk Back-up Risk Title | Risk Description | Trigger Event | Handling Strategy | Risk Type | Risk Event Likelihood | Risk Impact | Risk Rating | Best Case | Most Likely | Worst Case | | ost Likely Worst C | se Mitigation Actions | Date Identified | Last update | te Activities |
| FDD008 | E.5.01.30 | IEC | Burtenshaw, Shawna | | Contamination spread during the project, particularly during demolition. | Contamination area | Accept | Threat | Rare | Serious | 2-Low | \$ 750,000 | ŗ | | | 60 89 | 1. Proposed approach to demolition preparations is very conservative. 2. B601 has very low levels of contamination. 3. Final surveys will verify any contamination levels. 4. All interior surfaces of the Bio-Shield will be coated with fixative prior to demolition. 5. Contaminated demo (wet) techniques will be used during wire sawing. 6. Contract is still cost reimbursable, so fee is at risk. | 3/20/2022 | | T03-050130-1027 |
| F003 | E.1.02.31 | IEC | Biorn | Mechanical failure of the Volvo tractor | EBR to RSWF: The risk of a mechanical failure of the Volvo tractor prevents shipment to RSWF. | | Reduce/Mitigate | e Threat | Almost Certain | Minor | 3-Moderate | \$ 20,000 | \$ 30,000 | \$ 350,000 | 0 2 | 2 30 | Preventative maintenance inspections. Backup tractor and lease agreement with CFA. Procure second tractor. | | 4/13/2022 | TO3RSWF-1000 |
| 004 | E.1.02.34 | IEC | Friesz | Weather conditions prevent Peach Bottom transfers. | CPP-749 Peach Bottom Transfers: Abnormal weather conditions prevent the performance of CPP-749 Peach Bottom transfers. | Current weather conditions initiates a need to stop/curtail/delay planned project activities. | Reduce/Mitigate | e Threat | Almost Certain | Moderate | 4-High | \$ 10,000 | \$ 160,000 | \$ 600,000 | 0 2 | 30 89 | Reschedule transfer. Utilize resources on other projects until weather improves. Recover schedule during good weather months. | 3/20/2022 | 4/13/2022 | T03PBF-1000 |
| 005 | E.1.02.31 | IEC | Biorn | Weather conditions do not allow transfer operations from EBR-II to RSWF. | | Heavy snowfall, extremely cold temperatures, high winds and or above average rainfall. | Reduce/Mitigate | 2 Threat | Almost Certain | Minor | 3-Moderate | \$ 20,000 | \$ 40,000 | \$ 150,000 | 0 2 | 2 7 | Reschedule transfer. Utilize resources on other projects until weather improves. Second HFEF- 14 cask will allow operations more flexibility to continue with EBR-II operations and maximize shipments until weather improves. | | 4/13/2022 | T03RSWF-1000 |
| 006 | E.1.02.04 | IEC | Crapo/Jardine | Weather conditions will not allow for operational activities. | ARR-Direct: Weather conditions will prevent performance during operational activities such as shipping, unloading, drying, and storing 23- 001-23-0012. These shipments are scheduled to be received and processed during the winter months by ATR. | high winds and above average rainfall. | Reduce/Mitigate | e Threat | Unlikely | Moderate | 2-Low | \$ 50,000 | \$ 210,000 | \$ 420,000 | 0 7 | 30 60 | Reschedule the receipt. Reassign the crew to conduct other work. | 3/20/2022 | 4/13/2022 | TO3-SNATR1080 |
| 007 | E.1.02.04 | IEC | Crapo/Jardine | Transfers are delayed due to a malfunctioning CPP-603 PaR manipulator. | malfunctioning CPP-603 PaR manipulator (MAN | While operating the CPP-603 PaR manipulator (MAN-GSF-401), certain PaR motions appear to be or actually are abnormal/malfunctioning. Failure of the manipulatoirs results in schedule delays | Accept | Threat | Likely | Major | 4-High | \$ 900,000 | \$ 1,500,000 | \$ 2,700,000 | 0 89 | 151 270 | Maintain the PAR. Work with BEA to reschedul ATR Receipts. | e 3/20/2022 | 4/13/2022 | T03-SNATR1080 |
| 08 | E.1.02.04 | IEC | Crapo/Jardine | Camera failures due to high rad fields | ATR-Direct: High rad fields in the cave cause premature failure of the cameras in the CPP- 603 fuel handling cave. | Failed remote cameras hinder or prevent normal fuel handling operations in the CPP-603 IFSF cave and fuel storage area. | Reduce/Mitigate | e Threat | Likely | Minor | 2-Low | \$ 20,000 | \$ 40,000 | \$ 80,000 | 0 2 | 7 14 | In the majority of instances, alternative camera can be utilized to allow the continuation of operations. Perform camera replacement analvsis. | as 3/20/2022 | 4/13/2022 | T03-SNATR0040 |
| 009 | E.1.02.34 | IEC | Friesz | Changing CPP-749 security requirements | | Requirements derived from planned security related vulnerability assessments impose more restrictive security controls. | Accept | Threat | Possible | Moderate | 2-Low | \$- | \$ 260,000 | \$ 520,000 | D O | 30 60 | Work with DOE/BEA to ensure project activiies comply with security plan. | 3/20/2022 | 4/13/2022 | T03PBF-1000 |
| 010 | E.1.02.34 | IEC | Friesz | | CPP-749 Remediation: Interim Storage Area (ISA)-4 shielding is determined to be inadequate, resulting in radiation levels higher than those allowed for extended work in the 1st Generation Vault area. | Radcon surveys of the 1st Generation Vault area indicate higher than allowable radiation levels. | Accept | Threat | Possible | Minor | 2-Low | ş - | \$ 100,000 | \$ 125,000 | 0 0 | 0 0 | Work with Radiation protection, engineering, and waste management to mitigate radiation levels. | 3/20/2022 | 4/13/2022 | T03PBF-1000 |
| 11 | E.1.02.34 | IEC | Friesz | Excessive corrosion in the Peach Bottom vaults | CPP-749 Remediation: Fuel packages stored in certain Peach Bottom vaults are found to have excessive corrosion, precluding normal fuel package retrieval methods. | During Peach Bottom vault inspections, corrosion capable of jeopardizing the structural integrity of the fuel package lifting feature is observed. 2.) A discharge of fuel is observed when lifting a fuel package to visually inspect its bottom. | Accept | Threat | Possible | Moderate | 2-Low | \$ - | \$ 260,000 | \$ 520,000 | 0 0 | 30 60 | Fuel packages will be visually inspected prior to being lifted for the purposes of identifying corrosion issues. If an inspected fuel package is determined to be jeopardized because of corrosion then, retrieving the fuel package will be delayed until a recovery plan is developed/approved and readied to work. A conceptual design for retrieval equipment capable of safely lifting a jeopardized fuel package has been developed and reviewed/approved by DOE. | ; | 4/13/2022 | T03PBF-1000 |
| 012 | E.1.02.35 | IEC | Kimball | | 1258: Unfavorable weather conditions will prevent the performance of transfer operations for NuPac 125B casks. | Heavy snowfall, extremely cold temperatures, high winds and above average rainfall. | Reduce/Mitigate | e Threat | Rare | Minor | 1-Low | \$ 20,000 | \$ 30,000 | \$ 90,000 | 0 2 | 2 4 | Reschedule transfer when weather is favorable Utilize FTEs to support other projects not affected by the weather. Work with vendor to reschedule transfer or extend contract dates and funding. | | 4/13/2022 | T03-SN125B280 |
| 13 | E.1.02.35 | IEC | Kimball | The subcontractor is unable to provide heavy haul services to relocate NuPac 1258 casks. | The subcontractor is unable to provide heavy haul services to relocate the NuPac 125B casks on the specified dates. | | Reduce/Mitigate | e Threat | Possible | Moderate | 2-Low | \$ - | \$ 100,000 | \$ 200,000 | 0 0 | 30 60 | Reschedule when contractor is available. Involve contractor in transfer planning to ensur they are part of the schedule. Pursue contract with a different heavy haul contractor. | re | 4/13/2022 | T03-SN1258270 |
| 15 | E.1.02.04 | IEC | Crapo/Jardine | IEC schedule delay caused by ATR | ATR Direct: IEC schedule delay caused by ATR. | Equipment and/or operations delays at ATR cause delayed or moved shipment dates to INTEC | Reduce/Mitigate | e Threat | Possible | Minor | 2-Low | \$ 30,000 | \$ 110,000 | \$ 220,000 | 0 4 | 16 30 | Alternative work activities will me made available by upper management in the event o an ATR schedule delay. | | 4/13/2022 | TO3-SNATR1070 |
| 16 | E.1.02.32 | IEC | Сгаро | Destaco clamps are partially open or closed. | ATR-Direct: Destaco clamps are partially open or closed and prevent movement of fuel-loaded canisters. | Destaco clamps found to be damaged or | Reduce/Mitigate | e Threat | Possible | Serious | 3-Moderate | \$ 500,000 | \$ 1,000,000 | \$ 3,000,000 | 0 30 | 60 180 | Engineering has designed new equipment to remotely lubricate a De-Sta-Co clamp prior to opening/losing a clamp. Experienced operator who have worked with these clamps in the pas are utilized to minimize the probability of failure. Engineering is evaluating other mitigations. Grind off the destaco clamps and transfer fuel into a stainless steel canister. | rs t | 4/13/2022 | TO3-SNATR0030 |
| 3001 | Project Wide | DOE | DOE FPD | Blackford, Ty Supply Chain Delays and Cost Increases. | Due to emerging local, regional, and/or international events the supply chain is impacted limiting the ability to procure or accurately estimate the cost and time necessary to acquire necessary materials, services, and personnel. | Emerging national and international events impact supply chain. | Transfer | Threat | Almost Certain | Major | 5-Very High | \$ 500,000 | \$ 1,000,000 | \$ 2,000,000 | 0 150 180 | 270 | Propose Transfer to DOE | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |



| | | rammatic Risk R | egister | | | | | | | | | | | | | | | | - | | | |
|-----------------|-------------|-----------------|---------------------|------------------|---|---|--|-----------------|-----------|----------------|----------|-------------|-----------------|--------------|---------------|-----------|------------------|------------|---|------------|-----------|--|
| pdated : 8.17.2 | 2 | Responsible | | IEC Risk | | | | Handling | | Risk Event | | | | Cost Impacts | | Sc | nedule Impacts (| in days) | | Date | | |
| Risk ID | WBS | | Risk Owner | - | Risk Title | Risk Description | Trigger Event | Strategy | Risk Type | | | | | Most Likely | Worst Case | Best Case | Most Likely | Worst Case | Mitigation Actions | Identified | | |
| 002 | Project Wie | le DOE | DOE FPD | Blackford, Ty | Work Delay Due to Abnormal Weather Conditions | Severe weather conditions that go above and beyond the historical norms is experienced, resulting in project delays from Site closure. These days would have impacts to the cost and schedule. | weather conditions occur, based on historical precedents that would lead to Site closure. | Accept | Threat | Possible | Serious | 3-Moderate | \$ 500,000 \$ | \$ 1,000,000 | \$ 7,000,000 | 0.5 | 1 | 7 | Transfer to DOE | 4/13/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
| 03 | Project Wid | Je DOE | DOE FPD | Blackford, Ty | Legacy Contamination and/or Ordinance is Discovered in an Area Where it Would Not be Expected | Unexpected legacy contamination and/or ordinance is found during construction, | Legacy contamination and/or ordinance is found during construction, excavation, building, upgrades, or maintenance work scope efforts. | Transfer | Threat | Unlikely | Serious | 2-Low | \$ 300,000 \$ | \$ 500,000 | \$ 800,000 | 20 | 60 | 140 | Propose Transfer to DOE | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
| 4 | Project Wid | de DOE | DOE FPD | Blackford, Ty | Flaws in Legacy Equipment | The legacy equipment failures result in work execution delays increasing project costs and schedule duration. | Flaws in legacy equipment that occur outside regular preventative maintenance resulting in equipment failure. | Transfer | Threat | Unlikely | Major | 3-Moderate | \$ 500,000 \$ | \$ 1,000,000 | \$ 3,000,000 | 60 | 120 | 180 | Propose Transfer to DOE | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
| 5 | Project Wic | le IEC | IEC | Blackford, Ty | Stop Work due to External Events | External event at other INL locations or DOE sites cause a stop work. | External event at other INL locations or other DOE sites cause a work stoppage. Events include, but are not limited to; contamination events that shut down other facilities, any crisis that is found at another facility that could potentially exist at Idaho Cleanup Project (ICP) causing a stop work, etc. | Accept | Threat | Unlikely | Serious | 2-Low | \$ 300,000 \$ | \$ 500,000 | \$ 800,000 | 30 | 90 | 180 | | 6/8/2022 | 6/8/2022 | Expected to impact multiple areas within the schedule. |
| 1 | E.2.03.36.0 | 2 DOE | DOE FPD | Zovi, Bruno | Inability to Meet Site Treatment Plan (STP) Milestone for TRU Waste Reclassified to Mixed Low Level Waste (MLLW) | Currently no treatment capabilities exist to treat transuranic waste (TRU) that has been reclassified as mixed low-level waste (MLLW) associated with sludge reprocessing. | Inability to treat and dispose of MLLW organic sludges (10-100nCi/g) as required by STP milestones. | Transfer | Threat | Almost Certain | Critical | 5-Very High | \$ 2,000,000 \$ | \$ 8,500,000 | \$ 18,500,000 | 90 | 180 | 270 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | T03-050109-4015: AMWTP LLW/MLLW Shipments Offsite T03 (FY22) T03-050109-4025: AMWTP LLW/MLLW Shipments Offsite T03 (FY23) |
| 12 | E.2.03.33 | IEC | Chapple, Jaso | in | Commodity risk impacts production. | Commodity risks impact production. Numerou- times in the past, production was impacted du to the unavailability of commodities. If experienced in the future, this will limit how many containers can be processed through AR VII before the building must undergo RCRA closure. | 2 | Accept | Threat | Unlikely | Moderate | 2-Low | \$-\$ | \$ 300,000 | \$ 500,000 | 16 | 30 | 89 | Monitor procurements as early as possible to mitigate potential impacts. | 3/20/2022 | 4/13/2022 | T03-1ARPV-5005 |
| 13 | E.2.03.30 | IEC | Loftus, Natha | n | Vendor supplies for PPE | Vendor Supplies for PPE are on order to make cell entries to process this waste. | Unable to receive materials/PPE for NNSS Spheres processing that impact cell entries | Reduce/Mitigate | e Threat | Unlikely | Serious | 2-Low | \$ 50,000 \$ | \$ 100,000 | \$ 200,000 | 16 | 60 | 180 | Ensure items for processing are on hand as availabilty allows | 3/20/2022 | 4/13/2022 | TO3-050102-4450 |
| 1 | E.2.03.30 | IEC | Loftus, Natha | n | Output containers can not be shipped offsite within 1 year. | d The risk is that upon receipt and following processing of the two NNSS spheres, necessan actions for shipping, storage, and/or disposal are not completed, and the output containers cannot be shipped off site within one year as required. | Sphere waste cannot be processed/shipped withing 1-year of receipt | Reduce/Mitigate | e Threat | Possible | Major | 4-High | \$ 50,000 \$ | \$ 1,000,000 | \$ 2,000,000 | 30 | 121 | 366 | Monitor shipping requirements as early as possible to mitigate potential impacts. | 3/20/2022 | 4/13/2022 | T03-050102-4560 |
| 5 | E.2.03.30 | IEC | Hubler, Rachelle | | Modifications to WMF-618 required to support receipt of the Nevada Sphere in the 8-120B Cask are more extensive than originally planned. | receipt of the Nevada Sphere in the 8-120B | DOE must add scope to TO2 or TO3 to support Nevada Spheres project. At this point in time, we can start the engineering evaluation required to determine if the extent of modifications potentially impact schedule. | Reduce/Mitigate | e Threat | Rare | Serious | 2-Low | \$ 5,000 \$ | \$ 17,000 | \$ 108,000 | 30 | 60 | 89 | unloading spheres outside using temporaty platforms and mobile crane to avoid use of WMF618 | 3/20/2022 | 4/13/2022 | TO3-050102-4360 |
| 5 | E.2.03.30 | IEC | Hubler, Rachelle | | | The treated Nevada Spheres cannot be shipped to WIPP for disposal within the 1-year clock of being received at the AMWTP. | | Reduce/Mitigate | e Threat | Unlikely | Serious | 2-Low | Ş - S | \$ - | \$ - | 30 | 60 | 89 | The treated and packaged Nevada Sphere wast will be sent to NNSS for storage and eventual final disposal at WIPP. Should this contingeny b implemented, DOE-ID and the EM NV Program will coordinate with CBFO to allocate the necessary transportation resources for the shipments of the Nevada Spheres waste to NNSS per DOE ICP MOU with EM NV | | 4/13/2022 | TO3-050102-4560 |
| 7 | E.2.03.31 | IEC | Byram, George | | Failure of characterization equipmen will impact CH TRU waste certification. | t Failure of characterization equipment will impact CH TRU waste certification. Old technology that cannot be replaced is still present | Failure of nondestructive assay or real-time- radiography equipment | Accept | Threat | Unlikely | Serious | 2-Low | \$ 10,000 \$ | \$ 100,000 | \$ 200,000 | 30 | 89 | 180 | Short Term - Ensure critical spare parts are on hand as availability allows. Long Term - Replace/Upgrade characterization | 3/20/2022 | 4/13/2022 | T03-050102-4170 |
| 12 | E.2.03.31 | IEC | Byram, George | | available NDA equipment, will not provide a valid assay result for the | Risk that NDA results, using ISOCs and all other available NDA equipment, will not provide a valid assay result for the entire inventory of waste containers at the RWMC. The lack of sufficient assay characterization data may require repackaging of waste by splitting the waste in a container into two or more containers, combining two or more containers, or a combination of both. After re-assay, one o more of the resulting containers are still indeterminate for assay and have no approved disposition path from RWMC. | | Accept | Threat | Rare | Serious | 2-Low | \$ 50,000 \$ | \$ 100,000 | \$ 200,000 | 30 | 60 | 180 | equipment. Continue real time monitoring of NDA results to determine if changes to the process (longer count times, use of shielding, change distance between waste and equipment, etc.) are necessary and utilize expert technical review of NDA data in an attempt to resolve issues as necessary | | 4/13/2022 | T03-050102-4170 |
| 14 | E.2.03.35.0 | 2 DOE | DOE FPD | Byram, George | Unable to Certify/Ship Waste for Disposal at Waste Isolation Pilot Plan | Unable to ceritfy and/or ship waste for t disposal. | Waste cannot meet certification requirements for WIPP disposal. | Transfer | Threat | Possible | Serious | 3-Moderate | \$ 50,000 \$ | \$ 500,000 | \$ 1,000,000 | 30 | 60 | 180 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3-050102-4170: Packaging and Transportation of Waste FY22 TO3-050102-4190: Packaging and Transportation of Waste FY23 |
| 6 | E.2.03.32.0 | 2 DOE | DOE FPD | Loftus, Natha | (WIPP) 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, reword containers, or recertify waste that has already been certified in order to update the waste to the new requirements. | The WIPP requires detailed acceptable knowledge that does not exist and/or permit changes. | Transfer | Threat | Rare | Moderate | 1-Low | \$ 300,000 \$ | \$ 500,000 | \$ 1,750,000 | 15 | 30 | 90 | Propose Transfer to DOE | 3/20/2022 | 4/13/2022 | TO3-050102-4170: Packaging and Transportation of Waste FY22 |
| 18 | E.2.03.35 | IEC | Hubler, Rachelle | | The WMF-618 crane is unreliable. | | WMF-618 Overhead Crane Failure that cannot be easily repaired because of replacement part availability. | | : Threat | Likely | Serious | 4-High | \$ 250,000 \$ | \$ 500,000 | \$ 1,000,000 | 30 | 60 | 180 | Short Term - Ensure critical spare crane parts are on hand as availability allows. Long Term - Replace/Upgrade WMF-618 Overhead Crane during next major WIPP | 3/20/2022 | 4/13/2022 | T03-050102-4170 |



Idaho Cleanup Project Programmatic Risk Register

| Updated : 8.17.22 | | | | | | | | | | | | | Cost Impacts | | | dule Impacts (i | in days) | | | | | | |
|-------------------|-----------|--------------|------------|----------|---------------------------------|--|--|--|-----------|------------|-------------|-------------|--------------|--------------|------------|-----------------|-------------|------------|--------------------|------------|---------------------------|------------|--|
| F | - | Responsible | | IEC Risk | | | | Handling | | Risk Event | | | | cost impacts | | beite | | | | Date | | | |
| Risk ID | WBS | Organization | Risk Owner | Back-up | Risk Title | Risk Description | Trigger Event | Strategy | Risk Type | Likelihood | Risk Impact | Risk Rating | Best Case | Most Likely | Worst Case | Best Case | Most Likely | Worst Case | Mitigation Actions | Identified | I Last update | Activities | |
| U019 | E.2.03.31 | IEC | Byram, | | The annual Site Treatment Plant | The annual Site Treatment Plant milestone is | | Reduce/Mitigate | Threat | Possible | Serious | 3-Moderate | \$ 50,000 | \$ 100,000 | \$ 200,000 | 60 | 89 | 180 | | 3/20/2022 | 4/13/2022 TO3-050102-4170 | | |
| | | | George | | milestone is missed. | | and will be unable to fill available positions with | | | | | | | | | | | | | | | | |
| | ' | | | | | | experienced staff to complete critical | | | | | | | | | | | | | | | | |
| | | | | | | | Acceptable Knowledge, Site Project Manager, | | | | | | | | | | | | | | | | |
| | | | | | | | Certification, Real Time Radiography, Non- | | | | | | | | | | | | | | | | |
| | | | | | | | Destructive Assay, etc., activities in support of | | | | | | | | | | | | | | | | |
| | | | | | | | profiling and certification of waste streams | | | | | | | | | | | | | | | | |
| | | | | | | | B)Delays in external, DOE-ID and the CBFO, | | | | | | | | | | | | | | | | |
| | | | | | | | approvals of critical documents in support of | | | | | | | | | | | | | | | | |
| | | | | | | | TRU waste characterization, profiling and | | | | | | | | | | | | | | | | |
| | | | | | | | certification. | | | | | | | | | | | | | | | | |
| | | | | | | | C)CBFO requires an action and DOE-ID requires | | | | | | | | | | | | | | | | |
| | | | | | | | something different. This could potentially generate orphan waste; or could delay waste | | | | | | | | | | | | | | | | |
| | | | | | | | processing, require reprocessing or delay | | | | | | | | | | | | | | | | |
| | | | | | | | profiling and certification. | | | | | | | | | | | | | | | | |
| | | | | | | | D)WIPP may change their requirements or may | | | | | | | | | | | | | | | | |
| | | | | | | | introduce new interpretations of existing | | | | | | | | | | | | | | | | |
| | | | Í. | | | | | requirements, resulting in delays associated | | | | | | | | | | | | | | | |
| | | | | | | | with profiling and certification or may | | | | | | | | | | | | | | | | |
| | | | | | | | necessitate reprocessing of waste | | | | | | | | | | | | | | | | |
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