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Approver – Printed Name/Signature	Date
(RM/FDC for Document)	

This document has been reviewed by a Y-12 DC/ RO and has been determined to be UNCLASSIFIED, not UCNI, and contains no CUI based upon current classification guidance. This review does not constitute a review for CUI outside of classification guidance and does not constitute clearance for Public Release.

Name: Angi Kelley Date: 02/17/25

RC-UPF DMC 02/24/25 14:15

REVISION LOG

R	evision 26	
\boxtimes	Intent □ Non-Intent	Implements PRMS Requirements: ⊠ Yes □ No
•	This revision incorporates the changes ident	ified in and supersedes PRCN-UPF-CP-108-R25-01,

- This revision incorporates the changes identified in and supersedes PRCN-UPF-CP-108-R25-01, PRCN-UPF-CP-108-R25-02, PRCN- UPF-CP-108-R25-03, PRCN-UPF-CP-108-R25-04, and PRCN-UPF-CP-108-R25-05
- The following forms have been created as a result of this document:
 - UCN-23567, UPF Class 1 Event Investigation Report
- The following forms have been revised as a result of this document:
 - UCN-23257, UPF Investigation Report for Class 2 and 3 Events
- The following forms have been obsoleted as a result of this document:
 - o UCN-23470, UPF Subcontractor Event Investigation Report
- Updated Section 1.3, Applicability, to add additional information on how Electrical Incidents, Fire Events, Non-Work-Related Ambulance Runs and Life Critical Violations will be reported and investigated
- Updated Section 4.5, Investigation Process, to include new requirements
- Added Appendix C, Actual Severity Matrix Safety/Health; Appendix D, Actual Safety Matrix Environmental; and Appendix E, Event Potential Matrix
- Other changes include:
 - Transferred content to current CMGD template
 - Updated dollar value ranges for Property Damage event classifications
 - Updated references and acronyms
 - Editorial changes
- This revision is a total rewrite; due to the extent of changes, revision bars are not shown

Revision 25 ⊠ Intent □ Non-Intent

- This revision was prepared under Y15-95-235, UPF Command Media, Rev. 11
- This revision incorporates the changes identified in and supersedes:
 - PRCN-UPF-CP-108-R24-01 (corrected the use of Tools for Opportunities Performance Improvement through Communication [TOPIC] from the Incident Event Notification system per CR 025774-000-GCA-GAM-02020)
 - PRCN-UPF-CP-108-R24-02
- This revision supersedes DI-SH-801768-A001, UPF Injury Illness Protocol, Revision 1
- This revision supersedes DI-SH-801768-A003, *UPF Injury and Illness Reporting and Recordkeeping*, Revision 0
- Forms:
 - UCN-23470, UPF Subcontractor Event Investigation Report–New
 - 0-60, 0-60 Initial Notification Form—Obsolete
- An evaluation determination has been performed confirming that this Procedure does implement requirements tracked in the Programmatic Requirements Management System (PRMS)

- Other changes include:
 - OT-SH-801768-A002, UPF Event Reporting Incident and Notification Matrix, was obsoleted with this revision
 - O Global change of all instances of Initial Event Notification to Event Notification
 - Updated Appendix B, Event Reporting Incident and Notification Matrix
 - O Deleted Appendix C, Bechtel Core Process 108 Information
 - Updated Section 5.0, Records
 - Updated acronyms
 - Updated references
 - o Editorial changes and template updates
- This revision is a total rewrite; due to the extent of changes, revision bars are not shown

Previous revisions on record

CONTENTS

1.0	INTI	RODUCTION	6
	1.1	Purpose	6
	1.2	Scope	6
	1.3	Applicability	6
2.0	RES	SPONSIBILITIES	7
	2.1	UPF Project Director	7
	2.2	Responsible Manager	7
	2.3	Supervisor	7
	2.4	BNI Environmental, Safety, and Health Manager	8
	2.5	Issues Management Representative	8
	2.6	Event Investigator	8
	2.7	Subcontractors	8
	2.8	UPF Personnel	8
3.0	EVE	ENT CLASSIFICATION	9
	3.1	Class 1 Events	9
	3.2	Class 2 Events	9
	3.3	Class 3 Events	10
4.0	EVE	ENT RESPONSE	11
	4.1	Event Response and Notification	11
	4.2	Event Response (Non-Emergency)	11
	4.3	Event Response (Emergency)	12
	4.4	Evidence Collection/Processing	14
	4.5	Investigation Process	14
	4.6	Investigation Process (Motor Vehicle Incidents)	15
	4.7	Event Analysis	16
	4.8	Immediate/Compensatory Measures	17
	4.9	Records Submittal	17
5.0	REC	CORDS	18
6.0	REF	FERENCES	18
	6.1	Source References	18
	6.2	Interfacing References	19
	6.3	Forms	19

7.0 SUPPLEMENTAL INFORMATION	19
APPENDIX A Acronyms and Definitions	20
APPENDIX B Event Reporting and Notification Matrix	22
APPENDIX C Actual Severity Matrix – Safety/Health	
APPENDIX D Actual Severity Matrix – Environmental	
APPENDIX E Event Potential Matrix	27
TABLES	
Table 1. Event Response (Non-Emergency)	11
Table 2. Event Response (Emergency)	
Table 3. Evidence Collection/Processing	14
Table 4. Investigation Process	15
Table 5. Motor Vehicle Incident Investigation Process	16
Table 6. Event Analysis Process	17
Table 7. Immediate/Compensatory Measures Process	
Table 8 Records Submittal Process	17

1.0 INTRODUCTION

1.1 Purpose

This document establishes the process by which Environmental, Safety, and Health (ES&H) events, including occupational injury/illness, near-misses, vehicle and/or Property Damage, and Project-related Environmental Events, are reported and investigated.

1.2 Scope

This procedure is used to assist Uranium Processing Facility (UPF) Project Management in identifying, reporting, and correcting workplace hazards and system deficiencies.

This procedure shall be utilized in conjunction with company-specific (e.g., owner, client, contractor, subcontractor) policies, plans, procedures specific (but not limited) to off-Project notifications, legal reviews, and input of event information in respective databases.

1.3 Applicability

This Procedure applies to events at the UPF construction site and supporting offices and facilities (e.g., Commerce Park, off-site warehouses). UPF events associated with work performed by Consolidated Nuclear Security (CNS) or CNS processes will be investigated in accordance with E-PROC-0007, *Enterprise Event Recovery and Notification Program*. If personnel affiliated with CNS and personnel affiliated with BNI are both involved in an event, the Event Investigation will be investigated in accordance with this Procedure.

Events may also be subject to the requirements of Y14-192, *Y-12 Occurrence Notification and Reporting*.

All Fire events shall be reported and investigated in accordance with UPF-CP-211, *Fire Prevention and Protection*. The investigations of Fire events shall also comply with the requirements of this Procedure. In case of conflicts in the requirements of UPF-CP-211 and this Procedure, the requirements of UPF-CP-211 shall take precedence. The investigation shall be documented on UCN-23567, *UPF Class 1 Event Investigation Report;* or UCN-23257, *UPF Investigation Report for Class 2 and 3 Events*, as applicable.

All Electrical Incidents shall be reported and investigated in accordance with UPF-MANUAL-CM-001, *Uranium Processing Facility Construction Electrical Safety Manual*, using OT-SH-801768-A038, *UPF Electrical Hazard and Incident Investigations*. The investigations of Electrical Incidents shall also comply with the requirements of this Procedure. In case of conflicts in the requirements of UPF-MAUNUAL-CM-001 and this Procedure, the requirements of UPF-MANUAL-CM-001 shall take precedence. The investigation shall be documented on UCN-23567 or UCN-23257 as applicable.

NOTE: UCN-23567 is not a Project record and are not uploaded to DMC for retention. Completed forms are uploaded to IRIS.

APA-2HC-E0A0-000104-001, *UPF Injury and Illness Reporting and Recordkeeping*, describes the ES&H performance reporting, database management, quality assurance, and compliance with regulatory requirements associated with workplace injuries and illnesses and reporting.

The response to medical emergencies for which an ambulance is called for an Affected Employee, and when initial review does not indicate a discernible work-related event or exposure occurred, is described in GU-SH-801768-A003, *Ambulance Run Response Guide*.

Life critical violations shall be reported and investigated in accordance with UPF-POLICY-CM-001, *UPF Life Critical Requirements*. If an ES&H Event occurs as a result of a life critical violation, the event will be investigated in accordance with this Procedure.

2.0 RESPONSIBILITIES

2.1 UPF Project Director

The UPF Project Director is responsible for ensuring all events occurring on the UPF construction site and at supporting facilities are investigated to the proper extent, and are dispositioned appropriately.

2.2 Responsible Manager

The Responsible Manager (e.g., Site Manager, Startup Manager) is responsible for:

- Allocating resources to support Event Investigations and event reporting
- Coordinating with the Bechtel National, Inc. (BNI) ES&H Manager to determine the appropriate level of investigation based on the outcome and/or potential of an event
- Participating in the Event Investigation as required
- As applicable, developing immediate, remedial, compensatory, and/or corrective actions, as appropriate
- As appropriate, develop corrective actions in accordance with Y15-95-816, UPF Issues Management Process
- Notify all applicable parties (i.e., CNS, Y-12 Acquisition and Project Management Office [APMO], National Nuclear Security Administration [NNSA]) of an ES&H Event

2.3 Supervisor

The Supervisor (e.g., Superintendent, Subcontract Technical Representative) is responsible for:

- Reporting events to the appropriate Responsible Manager to initiate event management and investigation processes
- Ensuring affected personnel under their direction are provided the appropriate level of medical attention when the event includes an injury/illness
- Participating in the Event Investigation

2.4 BNI Environmental, Safety, and Health Manager

The BNI ES&H Manager is responsible for:

- Designating Event Investigators
- Collaborating with the Event Investigator and Responsible Manager to develop lines-of-inquiry and direct focus of an Event Investigation, as needed
- Completing Bechtel corporate notifications
- Determining the appropriate level of investigation based on the outcome and/or potential of an event
- Prescreening applicable events for entry into the Issues Management Process
- Verifying notification of the Operations Center has occurred as required by this procedure, UPF-CP-211, or OT-SH-801768-A038, as applicable for the event

2.5 Issues Management Representative

The Issues Management Representative is responsible for:

- Performing required Occurrence Reporting and Processing System notifications
- Completing the requirements outlined in Y15-95-816 and Y14-192, as applicable

2.6 Event Investigator

The Event Investigator is responsible for:

- Coordinating and completing required event notifications with the Responsible Manager and Issues Management Representative (as applicable)
- Performing the Event Investigation
- Keeping the Responsible Manager informed throughout the process of the investigation
- Assisting the Responsible Manager with the development of corrective actions
- Ensuring the collection of all evidence (e.g., human, physical, objective) related to the investigation

2.7 Subcontractors

Subcontractors are responsible for:

- Promptly and properly submitting a notification about event(s), securing the event scene, initiating the Event Investigation, completing the necessary documentation, and correcting open issues/actions in accordance with this procedure
- Completing and submitting, in a timely and quality manner, the required forms
 when an event occurs, including UCN-23567, UCN-23257, and UCN-23256, UPF
 Employee/Witness Statement, as applicable

2.8 UPF Personnel

All UPF personnel, including subcontractors, are responsible for immediately notifying their supervisors if an event is observed that has, or could have, an adverse

effect on the safety and health of personnel, property, or the environment. UPF Personnel will participate as necessary in incident investigations.

3.0 EVENT CLASSIFICATION

Initial event classification is used to ensure appropriate organizational levels and individuals are notified within the Project/facility and corporate organizations when an event occurs. It also is used to establish a timely and appropriate level of response and investigation consistent with severity based on Bechtel definitions and circumstances.

The BNI ES&H Manager, or designee, will classify the event. Event classification may involve consultation with the appropriate corporate organizations.

Appendix C, Actual Severity Matrix – Safety/Health; Appendix D, Actual Safety Matrix – Environmental; and Appendix E, Event Potential Matrix, provide technical descriptions of outcomes of ES&H Events and the appropriate classification for those events. The matrices can be used to facilitate the classification of an event. The matrices also break down the severity of an ES&H Event into five levels.

3.1 Class 1 Events

A Class 1 event is an event where the potential for employee, public, or environmental exposure is limited. It may be resolved quickly by the observer or other personnel in the immediate area.

It includes but is not limited to:

- Injury or health events that could be handled by first aid treatment
- Environmental Events readily corrected or cleaned up and not warranting government notification
- Minor Property Damage or theft less than \$100,000 (estimated)
- Utility hits that result in minor damage but no service interruption
- Small, contained Fire
- Tickets or minor fines from an Authority Having Jurisdiction (AHJ) (e.g., less than \$250)
- Near Miss incidents that could have resulted in any of the outcomes described as a Class 1 event

3.2 Class 2 Events

A Class 2 event is an event that is not life threatening to people or posing major risk to the environment. It may require mobilization of limited personnel or equipment in coordination with, and with support from, relevant project departments.

It includes but is not limited to:

- Injury or illness events requiring medical treatment that exceed first aid
- Any injury/illness to a third party
- Government inquiries or responses related to impacts or allegations of impact, or a minimal fine from an AHJ (e.g., greater than \$250)

- Equipment/Property Damage or theft less than \$500,000 and greater than \$100,000
- Substantial chemical and hazardous spill or release requiring mobilization of a spill response team
- Utility hits that result in service interruption and/or are deemed to be a Management Concern in accordance with Y14-192
- Demonstrated impacts to public health or public safety
- Events with the potential for significant local media coverage
- Required reporting of environmental or health monitoring exceedances to the AHJ
- A suppressed limited Fire
- Near Miss events that could have resulted in any of the outcomes described as a Class 2 event

3.3 Class 3 Events

A Class 3 event could or has disrupted the project site or surrounding areas or caused major harm to individuals, property, or the environment. It may require response by external emergency responders and reporting to regulatory agencies.

It includes but is not limited to:

- Fatalities
- Occupational injuries/illnesses resulting in serious physical harm. Serious
 physical harm means a body part is made functionally useless or substantially
 reduced in efficiency. Injuries involving impairment that requires treatment by a
 medical doctor and extensive rehabilitation (e.g., major bone fracture, deep burn,
 amputation, significant avulsion)
- Hospitalization of one or more employees
- Significant Property Damage greater than \$500,000 (e.g., Fires, spills, explosions)
- Significant Environmental Events with major acute or widespread impacts to the environment or communities
- Events giving rise to government investigations, regulatory notices of violation, or substantive fines
- Law enforcement actions, criminal charges, or other similar actions
- Events with the potential for significant regional or national/international media coverage
- Major events having the potential for significant liability or charges including, but not limited to, personal injury lawsuits, business interruption claims, consequential damages, and impact on the general public or environment beyond the jobsite
- Sabotage, explosion, significant threat, weather, Fire, or rescue situations
- Significant Near Miss events that could have resulted in any of the outcomes described as a Class 3 event

4.0 EVENT RESPONSE

4.1 Event Response and Notification

When an event occurs, the Responsible Manager's immediate and short-term response activities are to preserve life, property, the environment, and UPF assets. **Appendix B,** *Event Reporting and Notification Matrix*, is a guide for assisting employees with the correct contacts and notification methods. Refer to E-PROC-0007 for the CNS Event Notification process.

NOTE:

Events are subject to the review and reporting requirements of Y14-192. Applicable events require categorization within two hours of discovery and notifications within two hours after categorization.

Reclassification of injuries or illnesses does not require an Event Notification; however, an email distribution shall be made. Notification contacts include (but are not limited to) CNS personnel (including UPF and Y-12 National Security Complex [Y-12] designated personnel), UPF Project Office designated personnel, and company-specific off-Project personnel (e.g., BNI).

4.2 Event Response (Non-Emergency)

Follow the steps in **Table 1** to respond to non-emergency events.

Appointee Step Action NOTE: The order of action steps may vary depending on the complexity of the event. **UPF Personnel** 1 Report the event to the supervisor. If an individual is unable to do so because of injury or illness, then a coworker should contact the supervisor. 2 If an injury/illness is involved, then ensure workers are treated for injuries/illnesses. For minor injuries, employees may be taken to UPF Medical Facility. 3 Immediately notify the Responsible Manager and ES&H. Supervisor 4 If necessary, notify Y-12 Operations Center.

Center.

NOTE:

the area is safe.

area safe.

5

6

Responsible Manager

(or designee)

Refer to Appendix B for information on what

If necessary, pause work at the event location and make sure

Preserve the scene. Instruct personnel to not disturb, touch, or

handle any physical evidence, with the exception of making the

incidents require notification to the Y-12 Operations

Table 1. Event Response (Non-Emergency)

Appointee	Step	Action
	7	As necessary, secure and control the scene from unauthorized personnel. Establish a perimeter around the entire scene that is large enough to include any evidence or items of interest. Use barricades, signs, and tape in accordance with UPF-CP-214, <i>Barricades and Signs</i> .
	8	Identify witnesses and instruct them to meet with BNI ES&H.
	9	Turn over the scene to BNI ES&H for Event Investigation, and assist as necessary.
BNI ES&H Manager (or designee)	10	Complete and submit an event notification within the Incident Reporting and Information System (IRIS). Verify notification of the Operations Center has occurred as required by this procedure, UPF-CP-211, or OT-SH-801768-A038 as applicable for the event. Assign an Event Investigator.
Event Investigator	11	Complete Evidence Collection/Processing and Investigation in accordance with Sections 4.4, Evidence Collection/ Processing; 4.5, Investigation Process; and 4.6, Investigation Process (Motor Vehicle Incidents), as applicable.
Supervisor/ Responsible Manager	12	Recommend and implement immediate and/or compensatory measures to ensure the safety of personnel and security of the scene.
Issues Management Representative	13	When applicable, perform Occurrence Reporting and Processing System notifications and generate a Condition Report in accordance with Y15-95-816.

4.3 Event Response (Emergency)

Follow the steps in **Table 2** to respond to emergency events.

Table 2. Event Response (Emergency)

Appointee	Step	Action
NOTE: The event scene will be under the control of Y-12 Emergency Services. Assist as requested, secure the scene, and preserve evidence to the extent possible.		
	1	If the event requires emergency attention for a Fire or medical condition, then stop work immediately.
UPF Personnel/ Witness	2	Implement emergency notification procedures by contacting or having someone contact Y-12 Emergency Services or the Y-12 Operations Center.
		If the emergency has occurred offsite call 911 directly for Emergency Services response.

Appointee	Step	Action
	3	Notify the supervisor, if possible.
	4	Move affected personnel to a safe location, if applicable.
Supervisor/ Responsible Manager	5	Establish control of the area, and ensure access for Emergency Services.
	6	Ensure affected personnel are treated as soon as possible.
	7	Take appropriate and immediate action to stabilize the event scene, and place equipment in a safe configuration.
	8	Notify ES&H.
Responsible Manager	9	Preserve the scene. Instruct personnel to not disturb, touch, or handle any physical evidence, with the exception of making the scene safe.
(or designee)	10	Secure and control the scene from unauthorized personnel. Establish a perimeter around the entire scene that is large enough to include any evidence or items of interest. Use barricades, signs, and tape in accordance with UPF-CP-214.
	11	Identify witnesses and instruct them to meet with ES&H.
	12	The scene shall remain secured until released by the Event Investigator.
BNI ES&H Manager (or designee)	13	Complete and submit an Event Notification within the IRIS. Verify notification of the Operations Center has occurred as required by this procedure, UPF-CP-211, or OT-SH-801768-A038 as applicable for the event. Assign an Event Investigator.
Event Investigator	14	Complete Evidence Collection/Processing and Investigation in accordance with Sections 4.4, Evidence Collection/Processing; 4.5, Investigation Process; and 4.6, Investigation Process (Motor Vehicle Incidents), as applicable.
Supervisor/ Responsible Manager	15	Recommend and implement immediate and/or compensatory measures to ensure the safety of personnel and security of the scene.
Issues Management Representative	16	When applicable, perform Occurrence Reporting and Processing System notifications and generate a Condition Report in accordance with Y15-95-816.

4.4 Evidence Collection/Processing

The Event Investigator gathers evidence and facts. Factual proof is required to identify the causes of the event being analyzed.

The following categories of evidence with examples should be considered for collection and processing:

People: Written Statements, Interviews, training records, timesheets, attitudes and team dynamics, fatigue, stress, supervision

Environment: Noise levels, weather, lighting, contaminants, extreme temperatures

Equipment: Design and construction, inspection, modification, ergonomics

Procedures: Utilization, content, criteria, validation, control

Organization: Culture, leadership commitment and support, feedback process, safety training program.

Follow the steps in **Table 3** to collect and process evidence.

Appointee Step **Action** 1 Instruct Affected Employee(s)/witness(es) to fill out UCN-23256. Conduct interviews with the Affected Employee(s) and/or witness if additional information is needed. Document interviews on UCN-23256. 2 Request Y-12 Photography, or an approved designee, to photograph the event scene in its original state. If an item must be removed from the **Event** scene, photograph the item prior to removal. Investigator 3 Take weights and measurements as applicable. 4 Collect Field Level Hazard Assessment cards, work packages, permits, and training records, as appropriate.

Table 3. Evidence Collection/Processing

4.5 Investigation Process

Investigation of any type of incident must be timely and conducted in a systematic manner to identify root causes. The root causes are the underlying reasons why an incident occurred, and such an evaluation must consider the ES&H Management System and its program elements. The intent is to identify causative factors and corrective actions to improve programmatically.

The investigation process focuses on determining the facts and causes of an event. The level of investigation will be based on the associated hazard, potential severity of the event, and a determination of whether BNI ES&H controls would have mitigated the event. All events will require entry into the IRIS database.

Class 1 events will be investigated and the results will be recorded on form UCN-23567. A 5-Why or Why-Tree should be performed as part of the investigation and included with the UCN-23567 form. The witness statements and photographs should

also be attached as appropriate. The completed form will be stored in the IRIS database.

Class 2 and 3 events will be investigated and the results will be records on form UCN-23257. A Timeline, Barrier Analysis and Why Tree must be performed as part of the investigation and included with form UCN-23257. The completed form will be stored in the IRIS database and in InfoWorks[®].

The Issues Management Representative will follow all requirements outlined in Y15-95-816 and Y14-192 for applicable events.

The Event Investigator will lead the investigation utilizing the following personnel (as necessary):

- Responsible Manager, or designee
- Supervisor
- Affected Employee(s)
- Associated subject matter experts

Submission of recordable injury notification through U.S. Department of Energy (DOE) F 5484.3, *Individual Accident/Incident Report*, for entry into the DOE Computerized Accident/Incident Reporting and Information System (CAIRS) is required to be logged within seven calendar days from the time the injury or illness is determined to be recordable.

Follow the steps in **Table 4** to investigate an event.

Appointee	Step	Action
	1	Using information gathered during the evidence collection/processing phase, complete an IRIS entry and UCN-23567 or UCN-23257, as required.
Event Investigator	2	Concurrently, for applicable events complete DOE F 5484.3, <i>Individual Accident/Incident Report</i> . This form must be completed and submitted into the CAIRS within seven calendar days of event classification.
	3	UCN-23567/UCN-23257 and associated materials (package) shall be completed and submitted in a timely manner (refer to Section 4.9 , <i>Records Submittal</i>).

Table 4. Investigation Process

4.6 Investigation Process (Motor Vehicle Incidents)

Motor vehicle incidents (e.g., collisions) shall be reported and reviewed to determine corrective measures. Only events involving a Government Service Administration (GSA) Owned Vehicle(s) are applicable to this section. Construction equipment, forklifts, cranes, non-passenger-type vehicles, and non-GSA owned vehicles will be investigated in accordance with **Section 4.5**, *Investigation Process*.

Follow the steps in **Table 5** to investigate motor vehicle incidents.

Table 5. Motor Vehicle Incident Investigation Process

Appointee	Step	Action	
(Cra	MOTE: If an Affected Employee completes GSA Standard Form (SF) 91, Motor Vehicle Accident (Crash) Report, and/or SF 94, Statement of Witness, then they are not required to complete UCN-23256.		
Supervisor	1	Instruct the driver(s) to complete SF 91 in accordance with Y30-95-803, Use of Motor Vehicles and Utility Vehicles on the UPF Project, and submit to the Property Administrator within two working days of the date of accident.	
	2	Instruct any witnesses to complete SF 94 in accordance with Y30-95-803 and submit it to the UPF Property Administrator within two working days of the date of accident.	
	3	Instruct the driver(s) to prepare a sketch or provide an equivalent map of the scene.	
	4	For an off-site event, instruct the driver(s) to obtain a copy of the police report.	
	5	Assemble motor vehicle incident forms and associated documentation, and forward to the Event Investigator for review.	
Event Investigator	6	If the event results in a recordable injury, incorporate motor vehicle event information into UCN-23257.	
Supervisor	7	Submit assembled motor vehicle incident forms to the UPF Government Property Manager as soon as practicable.	

4.7 Event Analysis

The purpose of event analysis is to determine why an adverse event occurred so the appropriate corrective action can be planned and implemented to prevent recurrence.

NOTE:

This is an initial analysis of the event by the Event Investigator and all formal event analysis as required by Y15-95-816 will be performed by a qualified Causal Analyst.

Follow the steps in **Table 6** to perform an event analysis.

Table 6. Event Analysis Process

Appointee	Step	Action
NOTE: Consult Attachment 1 of DOE-STD-1197-2011, Occurrence Reporting Causal Analysis.		
	1	Perform basic event analysis and document findings for applicable events in the Causal Analysis section of UCN-23567 or UCN-23257.
Event Investigator	2	Explain the choice of event codes based on the information contained in the report.
	3	Review event codes with the Responsible Manager.

4.8 Immediate/Compensatory Measures

Follow the steps in **Table 7** to develop immediate/compensatory measures.

Table 7. Immediate/Compensatory Measures Process

Appointee	Step	Action
Responsible Manager	1	Develop immediate/compensatory measures to address the identified cause(s) of the event.
Issues Management Representative/ Event Investigator	2	Review the proposed measures/actions to ensure they address the identified cause(s). Immediate actions should be tracked in the IRIS for events that do not require formal action in accordance with Y15-95-816.
Responsible Manager	3	Implement the proposed measures/actions.

4.9 Records Submittal

Follow the steps in **Table 8** to submit records.

Table 8. Records Submittal Process

Appointee	Step	Action
Event	1	Obtain a document number for UCN-23257 from the Document Management Center (DMC).
Investigator	2	Compile all required forms, notifications, and collected evidence into an Event Investigation package.

Appointee	Step	Action
	3	If UCN-23257 or any other document contains Official Use Only and/or Personally Identifiable Information (i.e., previous diseases or metric information such as weight, height, blood pressure) as defined in E-PROC-3123, <i>Identification and Protection of Unclassified Controlled Nuclear Information and Official Use Only Information</i> , then ensure the form is marked accordingly.
	4	Submit UCN-23257 to the DMC for records retention. The finalized Event Investigation Reports are uploaded to IW for records retention. Access to all finalized UCN-23257 will be granted to the appropriate Project personnel within CNS UPF Quality Assurance Director and CAS. Access may also be granted to other Project personnel on as-needed basis.
	5	When revisions are made to a previously submitted UCN-23257: Identify the changes in UCN-23257. Resubmit the report to the DMC. Include the revision number at the top of the first page of the form.

5.0 RECORDS

Records generated by this Document shall be maintained in accordance with Y15-95-800, *UPF Document Management*.

The following records are generated:

Record or Form Number	Record Title	System/ Location	Document Type
UCN-23257	UPF Investigation Report for Class 2 and 3 Events (may include SF 91, Motor Vehicle Accident (Crash) Report; SF 94, Statement of Witness; and UCN-23256, UPF Employee/Witness Statement)	InfoWorks	EVR

6.0 REFERENCES

6.1 Source References

10 CFR 851, Worker Safety and Health Program, Subpart C, Section 851.26

2HC-E0A0-00104-000, Core Process 104, Injury and Illness Reporting and Recordkeeping

2HC-E0A0-00108-000, Core Process 108, Incident Notification and Investigation

DI-QA-801768-A004, UPF Causal Analysis

DOE O 225.1B, Accident Investigations

DOE O 231.1B, Admin Chg 1, Environment, Safety and Health Reporting

E-SD-2009, Integrated Safety Management Program - Incorporating Worker Safety and Health Program Requirements

PL-SH-801768-A009, UPF Construction Environmental Control Plan

6.2 Interfacing References

APA-2HC-E0A0-000104-001, UPF Injury and Illness Reporting and Recordkeeping

DOE F 5484.3, Individual Accident/Incident Report

DOE-STD-1197-2011, Occurrence Reporting Causal Analysis

E-PROC-0007, Enterprise Event Recovery and Notification Program

E-PROC-3123, Identification and Protection of Unclassified Controlled Nuclear Information and Official Use Only Information

GU-SH-801768-A003, Ambulance Run Response Guide

OT-SH-801768-A038, UPF Electrical Hazard and Incident Investigations

UPF-CP-211, Fire Prevention and Protection

UPF-CP-214, Barricades and Signs

UPF-MANUAL-CM-001, Uranium Processing Facility Construction Electrical Safety Manual

UPF-POLICY-CM-001, UPF Life Critical Requirements

Y14-192, Y-12 Occurrence Notification and Reporting

Y15-95-800, UPF Document Management

Y15-95-816, UPF Issues Management Process

Y30-95-803, Use of Motor Vehicles and Utility Vehicles on the UPF Project

6.3 Forms

SF 91, Motor Vehicle Accident (Crash) Report

SF 94. Statement of Witness

UCN-23256, UPF Employee/Witness Statement

UCN-23257, UPF Class 2 & 3 Event Investigation Report for Class 2 and 3 Events

UCN-23567, UPF Class 1 Event Investigation Report

7.0 SUPPLEMENTAL INFORMATION

Appendix A, Acronyms and Definitions

Appendix B, Event Reporting and Notification Matrix

Appendix C, Actual Severity Matrix – Safety/Health

Appendix D, Actual Severity Matrix – Environmental

Appendix E, Event Potential Matrix

APPENDIX A Acronyms and Definitions

(Page 1 of 2)

Acronyms

APMO - Y-12 Acquisition and Project Management Office	7
BNI - Bechtel National, Inc.	7
CAIRS - Computerized Accident/Incident Reporting and Information System	15
CNS - Consolidated Nuclear Security	6
DMC - Document Management Center	17
DOE - U.S. Department of Energy	15
ES&H - Environmental, Safety, and Health	6
GSA - Government Service Administration	15
IRIS - Incident Reporting and Information System	12
NNSA - National Nuclear Security Administration	7
UPF - Uranium Processing Facility	6
Y-12 - Y-12 National Security Complex	11

Definitions

Affected Employee	An individual directly involved in the sequence of an event or directly affected by the event.
Electrical Incident	An undesirable condition or unintentional event where an electrical current either led to the injury of a person, damage to property, or had the potential to do either or both.
Environmental Event	An event, or series of events, that causes or could cause direct or indirect adverse impacts to land, air, water, natural or cultural resources, people, or communities.
ES&H Event	An event, or series of events, that causes or could cause harm (injury, illness, or damage) to persons, facilities, materials, communities, or the environment, regardless of severity.
Event Investigation	A process in which persons directly involved in an event (i.e., Affected Employees and observers) and any other designated individual(s) participate to document the facts of the event for the purposes of determining causes, error precursors, and corrective actions.
Event Investigator	A designated person (or other competent person) with expertise to conduct the Event Investigation based on their experience and knowledge with respect to an application, scope, interpretation, and/or implementation of certain codes, standards, or regulations that directly relate to the type of event or condition.

APPENDIX A Acronyms and Definitions

(Page 2 of 2)

Fire	Unplanned destructive and uncontrolled burning, including detonation and deflagration, as manifested by any or all of the following: flame, heat, or smoke. Fire does not include the following events unless they cause a Fire or occur as a consequence of the event: lightning or electrical discharge; rupture of a pressure vessel not caused by internal combustion; detonation of munitions; overheat (without damage to initiating material); or failure of electric motors and other electrical equipment through overheating and shorting where any visible sparks or flames self-extinguish after power is removed from the device.
Near Miss	Any event that had potential to cause death, injury/illness, Property Damage, and/or environmental impact.
Property Damage	Property Damage is harm to property through negligence, willful destruction, or by some act of nature, including but not limited to Fires, spills, vandalism, vehicle collision, or explosion. Property Damage may include harm to a vehicle, building, utility, equipment, private property, or any other possession.
Responsible Manager	A member of the management team who has primary accountability over the area, personnel involved, or activity where an event occurred. Examples include: Project Field Engineer, Site Manager, Construction Subcontracts Manager, and Start-Up Manager.

APPENDIX B Event Reporting and Notification Matrix

(Page 1 of 2)

Event Reporting and Notification Matrix

All Fire events shall be reported and investigated in accordance with UPF-CP-211, Fire Prevention and Protection. All electrical events shall be reported and investigated in accordance with OT-SH-801768-A038, UPF Electrical Hazard and Incident Investigation; and UPF-MANUAL-CM-001, Uranium Processing Facility Construction Electrical Safety Manual. Events may be subject to the Y14-192, Y-12 Occurrence Notification and Reporting, process. In some cases, categorization is required within 2 hours of discovery and notifications within timeframes as soon as 2 hours of categorization to clarify notifications required to government bodies.

Type of Event	Timeframe for Initial Contact	Point-of-Contact	Contact Method	Responsible Person(s)
	Immediate	Supervisor/STR, ES&H	Phone/Radio	Affected Employee or Witness
Class 1 (non- Occurrence Reporting and Processing System [ORPS] triggering)	2 hours (or less) for all environmental spills, theft, Fire events, and Electrical Incidents.	Y-12 Operations Center	Phone/Radio	Supervisor
	End of Shift	0-60/Initial Incident Notification	IRIS	Event Investigator
	Immediate	Supervisor/STR, ES&H	Phone/Radio	Affected Employee or Witness
Class 2 (non- Occurrence Reporting and Processing System [ORPS] triggering)	2 hours (or less)	Y-12 Operations Center, Project Director/Project Manager	Phone/Radio	Supervisor
[]	End of Shift	0-60 Initial Incident Notification	IRIS	Event Investigator
	Immediate	Supervisor/STR, ES&H	Phone/Radio	Affected Employee or Witness
Class 1 and 2 (ORPS triggering)	2 hours (or less)	Y-12 Operations Center, Project Director/Project Manager	Phone/Radio	Supervisor
	End of Shift	0-60/Initial incident Notification	IRIS	Event Investigator

APPENDIX B Event Reporting and Notification Matrix

(Page 2 of 2)

Type of Event	Timeframe for Initial Contact	Point-of-Contact	Contact Method	Responsible Person(s)	
	Immediate	Supervisor/STR, ES&H	Phone/Radio	Affected Employee or Witness	
Class 3	2 hours (or less)	Y-12 Operations Center, Project Director/Project Manager	Phone/Radio	Supervisor	
	End of Shift	0-60/Initial incident Notification	IRIS	Event Investigator	
Injury/Illness Requiring	Immediate	Supervisor/STR, ES&H	Phone/Radio	Affected Employee or Witness	
Ambulance Transport (Non- Work Related)	2 hours (or less) from time of discovery as applicable	Limited Management Distribution	Text/Email	BNI ES&H Manager (or designee)/ Responsible Manager	

APPENDIX C Actual Severity Matrix – Safety/Health

					Actual				y/iicait	• •				
	Property Damage ¹	Abrasion, Bruise, Contusion	Strain, Sprain	Contact with plants, animals, or insects	Foreign Body	Heat Stress, Cold Stress	Laceration, Puncture	Burn	Electrical Shock	Health Exposure	Concussion	Fracture, Dislocation	Amputation, Avulsion	Fatality
Critical ² (Level 5)		injury requiring	Life threating injury requiring hospitalization	injury or illness requiring	Life threating injury or illness requiring hospitalization	injury or illness requiring	injury or those requiring	requiring		injury or illness	Life threating injury requiring hospitalization	injury requiring		Death from any cause
Severe ³ (Level 4)	Property Damage of >\$500,000 to \$1,000,000	Injury requiring surgical intervention	surgical	Injury or illness requiring hospitalization	Injury requiring hospitalization or surgical intervention	Injury or illness requiring hospitalization or surgical intervention	Injury requiring surgical intervention		Injury requiring hospitalization	requiring	Injury resulting in loss of consciousness with hospitalization	Injury requiring surgical intervention	Injury requiring surgical intervention	
Elevated (Level 3)	Damage of	treatment	treatment beyond first aid	requiring	Injury requiring treatment beyond first aid	requiring	treatment	Injury requiring treatment beyond first aid	treatment	requiring	Injury resulting in loss of consciousness and/or requiring treatment beyond first aid	Injury requiring treatment beyond first aid	Injury requiring treatment beyond first aid	·
Moderate ⁴ (Level 2)	Damage of \$25,000 to	in first aid treatment by		resulting in first aid treatment	Injury resulting in first aid treatment by off-site medical professional	resulting in first aid treatment		Injury resulting in first aid treatment by	Injury resulting in first aid treatment or evaluation by an off-site medical professional	Injury or illness resulting in first aid treatment by off-site medical professional				
Minor (Level 1)	Property Damage <\$25,000	ury resulting in first aid treatment		Injury or illness resulting in first aid treatment	ury resulting in first aid treatment	Injury or illness resulting in first aid treatment	ury resulting in first aid treatment	ury resulting in first aid treatment	Contact with electricity where no treatment is required	Injury or illness resulting in first aid treatment				

- 1. Property Damage cost is estimated in U.S. dollars
- 2. Critical incidents are those injuries and illnesses which have a reasonable potential to be life-threatening
- 3. Severe incidents are those injuries and illnesses which typically involve surgical intervention or hospitalization, but do not have a reasonable potential to be life-threatening
- 4. Moderate incidents typically reflect injuries and illnesses which require a higher level of medical review (e.g., by an off-site occupational medical professional or specialist), but for which the level of treatment remains at first aid
- 5. Color coding corresponds to Bechtel's three levels of incident classification: Class 1 Green (Minor Incidents), Class 2 Yellow (Moderate Incidents, Class 3 Red (Major Incidents)

APPENDIX D Actual Severity Matrix – Environmental

(Page 1 of 2)

	Social / Community	Land Disturbance	Natural Resources	Cultural Resources	Air Quality	Noise and Vibration	Water Quality	Erosion and Stormwater	Spills and Chemical Products	Contamination Discovery	Waste Management
	Lighting; Parking; Business or public facility impacts; Utilities; Public health; Public safety; Pedestrian or vehicle	Limits of disturbance; Planting and restoration; Site access location; Site stabilization; Soil handling and management	Endangered or threatened species; Fish and wildlife; Invasive species; Parkland, Unique or protected habitats; Vegetation; Wetlands; Forests; Grasslands	site, or artifact; Cultural		Construction Noise; Operational Noise; Construction Vibration; Operational vibration	Water chemistry; Waterbodies (lakes, ponds); Drinking water and wells; Groundwater; Rivers and streams; Wastewater discharges; Water security	controls; Stormwater controls; Stormwater discharges; Dewatering; Floodplains; Flooding	Spill or release to soil and/or water; Spill or release affecting groundwater; Spill or release within a structure or utility; Spill or release from a utility; Chemical storage	event. It is discovery of:	Onsite storage and disposal; Offsite disposal; Recycling and reuse; Dumping by others; Regulated or non- regulated waste
Critical (Level 5)	permanent impacts on a community; Requires extensive response and large-scale and specialized mitigation and actions; May have major economic or social impact	or waterways outside of approved project limits, or similar impacts to land or water, resulting in significant and long-term impacts and extensive remediation; Significant	aquatic environments; Loss or widespread damage to unique or	impact to indigenous peoples or tribes, such as	emissions, or gas that can impact public health to the extent that offsite evacuation or exclusion zones are required; Requires specialized mitigation practices and notifications	sleep depredation), exclusion of property	surface water, ground, or groundwater that causes acute and chronic damage (e.g., toxic conditions, fauna loss); Long-term impact to the availability of	or adjacent property causing filling; Significant water quality or ecosystem degradation; Major uncontrollable stormwater causing down-gradient impacts requiring extensive remediation	injury; Requires closure of a	Discovery of persistent and large-scale contamination of a structure, groundwater, land, or waterbody; extensive, long-term, or infeasible remediation; Significant public health or worker impact from contaminants; Pronounced ecosystem damage or loss of fauna	Storage, transport, treatment, or disposal of a significant quantity of hazardous (dangerous/toxic) waste (see for example United Nations Transport of Dangerous Goods - Packing Group 1); Typically involves great risk or impact to the environment or public
Severe (Level 4)	community or citizens; Requires extensive coordination and upgraded mitigation practices from those deployed, or specialized actions; May have significant economic or social impact; Significant public protest with regional	access points resulting in significant short-term impacts and associated remediation; Misuse or mishandling of contaminated soils with	Significant unapproved loss of animal or plant species; Impacts to unique or protected habitats or parkland; Significant remediation to restore resources; Impacts to breeding cycles; Impact to a rare or endangered species; Introduction of an invasive species	local heritage value; Significant infringement on cultural values or sacred sites; Impact to indigenous	within or outside the worksite; May involve onsite evacuation or exclusion zones; Usually requires specialized mitigation and notifications; May involve	impacts with impact to public health, property occupancy, structure integrity, or elements of business/facility use; Typically involves a specific block of buildings or a single building in direct	Substantial or persistent dischantial or persistent discharge of a pollutant to surface water, ground, or groundwater damaging those resources or local fauna; Has potential long-term health or environmental implications; Short-term impact on water availability outside the worksite; Significant mishandling of contaminated groundwater	sediment offsile to a waterway or adjacent property causing filling, water quality impacts, ecosystem damage, or habitat/species loss; Similar short-term offsile stormwater impacts from flooding or erosion; Lengthy remediation of erosion or flooding events	Substantial release of a flammable, corrosive, explosive, toxic, biological, or other hazardous substance to an offsite location (> 5 L or kg); Release of petroleum or other product offsite (> 50 L or kg); Any release that reaches a waterway, waterbody, or unique habitat; Any onsite release of a hazardous substance (> 2.5 L or kg) or petroleum or other product (> 50 L or kg); Any event requiring significant cleanup	impact to worker or public health or ecosystem; Significant remediation required; Involves use of a specialized mitigation plan	Storage, transport, treatment, or disposal of hazardous waste (e.g., > 100 kilograms) or a significant quantity of non-hazardous waste (e.g., > 300 kg) that impacts people or the environment; includes discovery of same dumped onsite by others
Elevated (Level 3)	resolution, internally and possibly externally, and improved mitigation practices or location-specific action; may have important economic or social impact;	or access points resulting in short-term impacts and imited remedial actions; failure to properly stabilize the site resulting in offsite impacts; isolated misuse or mishandling of contaminated soils	plant species, including feeding and reproduction; repairable impact to unique or protected habitats or	sites; Discovery of an archaeological site	Short-term generation of dust, odors, emissions, or gas that create limited public health concern, or cause environmental or Property Damage, within or outside the worksite (e.g., respiratory, or vision impacts); A specific nuisance condition or activity generating multiple public complaints; Requires some remedial actions	requiring addition of specific	resources that can be remediated or stopped readily with impact to water quality but not to health or fauna; Requires additional or improved mitigation practices to prevent	causing property, water quality, or ecosystem impacts; or modest short-term offsite stormwater impacts from flooding or erosion; Short-term and readily achieved offsite remedial actions; Significant onsite erosion or flooding events requiring	Moderate release of a chemical, petroleum, or other product/substance to an offsite location (< 5 L or kg); any onsite release of a hazardous substance (< 2.5 L or kg) or petroleum or other product (<	Discovery of contamination of a structure, land, groundwater, or waterbody that would require modest short- term remediation to protect workers, public health, or the environment	Storage, transport, treatment, or disposal of a minor quantity of hazardous waste (e.g., < 100 kg) or a large quantity of non- hazardous waste (e.g., < 300 kg) that impacts people or the environment; includes discovery of same dumped onsite by others

APPENDIX D Actual Severity Matrix – Environmental

(Page 2 of 2)

Moderate (Level 2)	neighborhood or citizens that requires internal coordination and is resolved readily with refined or standard mitigation or	land or waterways outside of approved project limits or access points with easily reversible and minimal impacts; Some planting and stabilization impacts	disturbance of animal or plant species or habitats in terrestrial or aquatic environments; No discernable breeding, ecological, or population impacts; May involve	cultural resource value that can be repaired readily; Unauthorized infringement on an archaeological site or a historic structure solved by mitigation or administrative measures	airborne pollutant or odors without damage to human health or property, but creating nuisance	warranting evaluation and adjustment of controls, administrative procedures, or work methods		and readily remediated; Onsite erosion and stormwater events that require major remedial actions to resolve impacts	petroleum, or other product/substance that is contained onsite at the point of spill with minimal impact and remediated the same work shift (< 5 L or kg petroleum product) using standard spill control and	contamination of a structure, land, groundwater, or waterbody; Requires minimal short-term remediation to protect	Storage, transport, treatment, or disposal of a modest quantity of non- hazardous waste (e.g., < 150 kg) that mpacts people or the environment; includes discovery of same dumped onsite by others
Minor (Level 1)		disturbance of land outside of approved project limits or access	accidental disturbance of animal or plant species or habitats in terrestrial environments; No discernable breeding, ecological, or population impacts or need for habitat	infringement on a protected cultural resource, value, or site that can be solved by adjusting mitigation measures; Find of an archaeological artifact warranting	airborne pollutant or odors without risk to human health or property but with short-	vibration complaint from offsite or onsite that warrants evaluation and adjustment of controls or work methods	Discharge to water resources causing limited impacts to a discrete area with no measurable consequence, but requiring adjustment in control practices	stormwater events and conditions that impact onsite resources and require substantial remediation	chemical, petroleum, or other product/substance that is contained onsite at the point of spill with little or no impact and readily remediated using basic spill control and remediation	isolated contamination of a structure, land, groundwater, or waterbody; Requires little remedial action to protect workers, public health, or	quantity of non- hazardous waste that impacts people or the environment; readily

NOTE:

The color coding is used to classify an incident as follows: Red = Class 3; Yellow = Class 2; Green = Class 1. Descriptions are intended to show technical gradation, not every possible scenario. Final classification must consider administrative factors. If an incident involves multiple categories, classify the incident based on the most significant outcome.

APPENDIX E Event Potential Matrix

	Property Damage	Environmental Incident	Safety/Health Incident
Critical (Level 5)	Possessed an undisputed potential for Property Damage >\$1,00,000 (US)	Had the potential for acute or widespread impact to the environment or community that would require significant and specialized response; Had the potential to negatively impact global reputation	Had an undisputed potential to cause a life-threatening injury or illness
Severe (Level 4)	Possessed a high potential for Property Damage of >\$500,000 to \$1,000,000 (US)	Had the potential for persistent and significant impact to the environment or community that would require specialized remedial action and mitigation to resolve; Had the potential to negatively impact national/regional reputation	Had a high potential to cause a severe or critical non-life-threatening injury or illness
Elevated (Level 3)	Had the potential to negatively impact local reputation; Possessed a reasonable potential for Property Damage >\$100,000 to \$500,000 (US)	Had the potential for short-term impact to the environment or community that would require coordination and localized remedial action and improved mitigation to resolve	Had a reasonable potential to cause an elevated injury or illness
Moderate (Level 2)	Possessed a reasonable potential for Property Damage between \$25,000 and \$100,000 (US)	Had the potential for minimal impact to the environment or community that would require refined mitigation or administrative practices to resolve	Had a reasonable potential to cause moderate injury
Minor (Level 1)	Minor damage below \$25,000 (US)	Had the potential for minor impact to the environment onsite that would require standard mitigation practices to resolve	Reasonable potential for minor injury

NOTE:

Color coding corresponds to Bechtel's three levels of incident classification: Class 1 – Green (Minor Incidents), Class 2 – Yellow (Moderate Incidents, Class 3 – Red (Major Incidents). For purposes of this table, the incident type must be chosen based on the most severe potential outcome associated with an incident. For example, if a Property Damage incident had the potential for significant injuries, the Safety/Health category would be used to define potential.