THE NATION'S URANIUM PROCESSING FACILITY

Preparer:

Connor McDonnell
BNI UPF Industrial Hygienist — 11/06/25 Date

Approval:

Robert C. Drake
BNI UPF ES&H Manager — 11/06/25 Date

Jackson A. Flannery
CNS UPF ES&H Manager — 11/05/25 Date

James W. Sowers
CNS UPF Quality Assurance Manager — 11/19/25 Date

Dustin E. Reddick
BNI UPF Site Manager — 11/08/25 Date

Brian D. Zieroth
BNI UPF Project Manager — 11/20/25 Date

11/20/25
Effective Date

REVISION LOG

Revision 7
☒ Intent ☐ Non-Intent Implements PRMS Requirements: ☒ Yes ☐ No

• This revision incorporates the changes identified in and supersedes PRCN-UPF-CP-229-R06-02 and PRCN-UPF-CP-229-R06-01
• No forms have been edited as part of this revision
• Added bullet to Section 3.1.3, *Inspections*
• Removed Section 3.4, *Golf Carts and Utility Vehicles*
• Other changes include:
  ○ Updated references and acronyms
  ○ Removed all references to golf carts and utility vehicles
  ○ Editorial changes

Revision 6
☒ Intent ☐ Non-Intent Implements PRMS Requirements: ☐ Yes ☐ No
• This revision is a complete rewrite, therefore revision bars are not shown. • This revision further provides guidance for the operational requirements and controls necessary for safe operation and care of vehicles, heavy equipment, and utility/golf carts.
Previous revisions on record

CONTENTS

1.0 INTRODUCTION....4
1.1 Purpose....4
1.2 Scope....4
2.0 RESPONSIBILITIES....4
2.1 Site Manager....4
2.2 Environmental Safety and Health Manager, BNI....4
2.3 Environmental Safety and Health Representative....4
2.4 Discipline Superintendent....4
2.5 Supervisor....4
2.6 Subcontract Technical Representative....4
2.7 Vehicle and Equipment Operator....5
3.0 PROCESS....5
3.1 Vehicles and Heavy Equipment....5
3.2 Vehicles....8
3.3 Heavy Equipment....9
3.4 Subcontractors....10
3.5 Spotters and Flaggers....10
3.6 Construction Phase Assessments....11
4.0 RECORDS....11
5.0 REFERENCES....11
5.1 Source References....11
5.2 Interfacing References....11
5.3 Forms....11
6.0 SUPPLEMENTAL INFORMATION....12
APPENDIX A Acronyms and Definitions....13

1.0 INTRODUCTION

1.1 Purpose

The purpose of this procedure is to provide guidance for the operational requirements and controls necessary for safe operation and care of vehicles and heavy equipment.

1.2 Scope

This procedure applies to Uranium Processing Facility (UPF) project employees and subcontractor personnel for support and construction activities, where the operation, care, inspection, and maintenance of vehicles and heavy equipment takes place.

2.0 RESPONSIBILITIES

2.1 Site Manager

The Site Manager has the overall responsibility for ensuring the implementation of this procedure – defining, establishing, and maintaining requirements for safely separating heavy equipment from vehicles and site personnel.

2.2 Environmental Safety and Health Manager, BNI

The Environmental Safety and Health (ES&H) Manager, BNI has the overall authority for interpretation of the regulations associated with the procedure and the interpretation of the procedure as to intent and application.

2.3 Environmental Safety and Health Representative

The ES&H Representative has the responsibility of assisting construction supervision in complying with this procedure, performing routine monitoring and inspection of vehicles and equipment, and participating in accidents/near miss event investigations when vehicles and/or equipment are involved.

2.4 Discipline Superintendent

The Discipline Superintendent is responsible for being thoroughly familiar with this procedure regarding compliance and implementation, ensuring all those that directly report to them have completed all the required training to operate vehicle and equipment.

2.5 Supervisor

The Supervisor is responsible for ensuring the applicable safety controls and processes are incorporated into planning and execution of the work and that the workers are implementing and complying with this procedure within their area of responsibility.

2.6 Subcontract Technical Representative

The Subcontract Technical Representative is responsible for the following:

- Ensuring subcontractors comply with this procedure.
- Ensuring subcontractor-owned or rented equipment is inspected by the subcontractor and certified to be in safe operating condition prior to being placed in service on the construction site, in accordance with subcontractor requirements documents.
- Ensuring subcontractors conduct or have conducted equipment inspections at the frequency recommended by the manufacturer.
- Ensuring the subcontractors inspection records are maintained by the subcontractor at the site and available upon request.

2.7 Vehicle and Equipment Operator

The vehicle and equipment operator is responsible for the following:

- Receiving the required physical exams and training requirements for the type of vehicle or equipment being operated.
- Participating in driver-training programs, as applicable.
- Notifying direct supervision upon suspension or revocation of a state driver's license, or upon any driving restrictions placed by local, state, or federal agencies.
- Reporting use of prescription medication that may affect the ability to operate equipment.
- Conducting pre-use inspection(s) prior to daily use, as applicable.
- Ensuring that lights, signals, horn, and brakes are in proper working order prior to use.
- Reporting immediately, safety defects or vehicle/equipment problems.
- Ensuring vehicle/equipment occupants use seatbelts prior to movement.
- Operating company vehicles and equipment in a safe, responsible manner, obeying all traffic laws and site requirements while driving on or off of the project.
- Yielding to pedestrians at designated crossings and other areas indicated by signs.
- Maintaining a safe distance between vehicles and equipment. A safe distance means having enough time and distance between vehicles/equipment to allow for emergency braking to avoid an accident or incident.
- Reporting immediately, all vehicle/equipment accidents/incidents and/or damages to supervision and ES&H.

3.0 PROCESS

3.1 Vehicles and Heavy Equipment

The following subsections are applicable to vehicles and heavy equipment as described by the procedure.

3.1.1 General Requirement

Vehicles and heavy equipment (as applicable) will be equipped with the following:

- Brakes – Service, emergency, parking brakes
- Lights – At least two headlights and two taillights.
- Brake Lights – All vehicle types, including combinations of vehicles and trailers.
- Horn - Audible warning device at operator's station

Vehicles and heavy equipment used to support the UPF site will be equipped with an approved fire extinguisher.

3.1.2 Inspections

Visually inspect assigned vehicle or heavy equipment prior to every trip or use, including:

- Perform a 360-degree walk around inspection of the exterior for defects and obstructions that impair the operators view and (or) access or egress of the vehicle.
- Use blue safety cones at the front and rear of UPF fleet vehicles after parking as a reminder to perform a 360-degree walk-around inspection.
- Inspect at the beginning of each shift, to assure the following parts, equipment, and accessories, as applicable, are in safe operating condition:
  - Brakes – service, emergency, and parking brakes
  - Tires
  - Horns
  - Lights
  - Steering mechanism
  - Coupling devices
  - Seat belts
  - Operating controls
  - Other safety devices (Lights, reflectors, windshield wipers, defrosters)

3.1.2.1 Inspection Documentation

For passenger vehicles, commercial vehicles, and construction equipment, perform and document inspections in accordance with Y17-95-64-851, *UPF Construction Equipment Maintenance*.

If a deficiency is identified during the vehicle or heavy equipment inspection, tag the equipment with a Danger "Defective Tool/Equipment – Do Not Use" tag and report the situation to supervision. Keep vehicle or heavy equipment out of service until service personnel are able to inspect, repair, and validate the repair.

When the repair is complete, the Service Department removes the tag, and equipment is returned service.

3.1.3 Operator Requirements

A valid state driver's license is required for operating vehicles and heavy equipment on the site and within the construction areas. The state license signifies that the operator has been trained and tested to operate a vehicle safely and in accordance with all state traffic laws.



Operators are to be alert to Construction site signage and driving requirements, to include driving for inclement weather conditions. The UPF Construction Site is designed to maintain a safe separation between construction equipment and vehicles, as well as separation from site personnel by employing access control routes, speed limits and parking and entry restrictions. These site traffic control rules are updated and posted as necessary to reflect changing conditions.

Operators failing to comply with the above requirements, state and site traffic regulations, and/or possess contraband items, including alcohol and prohibited substance possession and use, are subject to disciplinary actions up to and including termination.

Insurance certification, registration, and a checklist to follow in case of an accident are in each vehicle which travels over public access roads and highways.

3.1.4 General Operating Practices

Operators are to operate the vehicle or heavy equipment according to his/her skills, training, the manufacturer's recommendations, and in accordance with applicable traffic control rules.

Re-fueling vehicles and heavy equipment with the engine running is prohibited. SMOKING or operating mobile/cell phones or radios while refueling or operating vehicles is also prohibited.

Maintain a safe driving distance between vehicles and heavy equipment.

Yield to pedestrians at designated crossings and other areas indicated by signs or established walking paths.

Use of headlights on at all times is recommended when operating vehicles and heavy equipment.

Use of seat belts is mandatory, where equipped.

NOTE: *According to 49 CFR 571.208,* Occupant Crash Protection*, seatbelt requirements for medium and large buses (> 10,000 lbs.) only pertain to the operator of the vehicle. Passenger seatbelt use is optional.*

In snowy or inclement weather, clear vehicle and heavy equipment of ice and snow on rear and front windshields, rear view mirrors and tail and headlights, prior to operating. Ensure windshield wipers are in proper operating order and used as necessary.

For operation of vehicles or heavy equipment within enclosed structures (e.g., warehouse), contact Industrial Hygiene to perform a hazard evaluation prior to running engines.

3.1.4.1 Distraction Avoidance:

Operator is to avoid activities that may distract from operating a vehicle or heavy equipment safely, such as:

- Participating in activities with passenger(s) in the vehicle that distract driver attention.
- Adjusting radios, tape players, and/or CD players while driving.

- Eating or drinking while driving.

3.1.4.2 Use of Mobile Communication Devices (MCD):

Drivers are not to use any type of MCD (cellular/mobile phones, in-hand or hands-free devices or radios, walkie-talkies, paging or texting devices, personal data assistants or any other hand-held computers or portable electronic device) under any of the following circumstances:

- Driving a company vehicle using a company-authorized MCD
- Driving a company vehicle using a personal MCD
- Driving a personal vehicle using a company-authorized MCD
- Driving a personal vehicle using a personal MCD for company business purposes

If need arises to use such devices while on the road, pull the vehicle off the road and park in a safe location, and then answer and respond to the call.

Operation of other portable electronic devices that cause driver distraction are also prohibited while driving (e.g., operating MP3 players, iTouch, GPS devices, etc., while the vehicle or equipment is in motion).

Reading any printed material (newspaper, drawings, books, etc.) while driving is prohibited.

NOTE: *Under specific operational controls, two-way radios may be used during work operations where communication is required between the equipment operator and assisting personnel or for traffic control purposes and/or during emergencies, as determined by management.*

3.1.5 General Maintenance and Repairs

Based upon the manufacturer's recommendations, supervision ensures that their assigned vehicles and heavy equipment are returned to the service department for preventative maintenance and scheduled servicing.

3.2 Vehicles

The following applies to the operation of vehicles (e.g., passenger vehicles, vans, light duty "pick-up" trucks, and service and vendor trucks) in addition to those specified in **Section 3.1, *Vehicles and Heavy Equipment*** of this procedure.

Do not park vehicles in fire lanes, road ways, next to emergency exit doors to facilities/buildings, or any other locations that would impede access to emergency responders and vehicles.

3.2.1.1 Securing vehicles:

When parking inside or outside the confines of the UPF construction perimeter, remove keys and lock government vehicles at the end of the scheduled work shift and whenever unattended.

Vehicles not equipped with an automatic backup alarm should sound the horn to warn pedestrians that the vehicle is backing up.

Vehicles will be shut-off when unattended, the key removed, and parking brake set.

Secure equipment and materials being transported in the trunk or cargo bay, including loose and heavy objects that could pose a projectile hazard in the event of a sudden stop or swerve.

Personnel are prohibited from riding in truck beds.

NOTE: *Under emergency conditions where an individual cannot self-rescue, passengers may be allowed to be transported short distances, in order to be promptly removed from a dangerous situation (e.g., fire, explosion, chemical release).*

Come to a complete stop prior to loading and unloading passengers.

Operators and passengers are to practice safe behaviors when operating or riding in a vehicle.

3.3 Heavy Equipment

The following applies to operation of heavy equipment (e.g., dozers, scrapers, excavators, graders, semi-trailer trucks, and dump trucks) in addition to those specified in **Section 3.1** of this procedure.

3.3.1 Heavy Equipment Operator Training

Construction Training provides employees with training on heavy equipment hazard identification and avoidance of such conditions as pinch points, swinging booms, moving equipment, raised loads, noise, and refueling.

Heavy equipment operators are to possess a certification and/or union hall designation identifying what types of heavy equipment the employee is qualified to operate. The designation is determined through experience history and/or apprentice training programs.

3.3.2 Heavy Equipment Requirement

- Provide a continuous or intermittent back-up signal alarm.
- Vehicles having obstructed views to the rear shall not be driven unless:
  - The vehicle has a reverse signal alarm above the surrounding noise level, or
  - Vehicle is backed up only when a spotter/equipment watch signals that it is safe to do so.
- Vehicle cabs are to be equipped with windshields and powered wipers along with defogging/defrosting devices.
- Haulage vehicles, which are loaded by means of cranes, power shovels, or similar equipment, shall have a cab shield and/or canopy adequate to protect the operator from shifting or falling materials.
- Ensure guards are in place for equipment that has exposed rotating or reciprocating machinery.

3.3.3 Heavy Equipment Operating Practices

Do not park equipment in fire lanes, road ways, next to emergency exit doors to facilities/buildings, or any other locations that would impede access to emergency responders and (or) vehicles.

Provide lighting, reflectors, or barricades to identify equipment left unattended adjacent roadways at night.

When performing load lifts:

- Operators are to verify that drifting loads do not traverse over nearby personnel.
- Ensure nearby personnel are aware of the operation, kept clear of the area, and never beneath lifted load areas.
- Ensure a bell man or Rigger is present to alert nearby personnel of overhead loads being lifted or being removed in accordance with Y17-95-64-871, *UPF Construction Hoisting and Rigging Work Operations*.

Heavy equipment operators and equipment service personnel shall be aware of overhead and underground utility hazards.

Use wheel chocks when parking (wheeled) vehicles on an incline.

3.4 Subcontractors

This procedure applies to subcontractors who bring vehicles and/or heavy equipment onto the UPF Site, and as such, required to adhere to the UPF guidelines for operating and maintaining their equipment, including:

- Providing manufacturer's operating instructions for each type of vehicle and heavy equipment maintained onsite and are to be made available for review by Bechtel, and
- Ensuring only trained and qualified personnel operate vehicles and/or heavy equipment, and that such equipment is maintained in proper working order.

Construction equipment support vendors are to adhere to UPF guidelines for equipment maintenance with regard to the safe work practices outlined in this procedure and other procedures related to safe use and operation of equipment at the UPF project.

Off-site maintenance shops are to perform technical inspections of subcontractor vehicles/equipment during normal servicing operations.

Equipment having defects that are determined to be an operational safety hazard are to be removed from service by placing a "Danger - Defective Tool/Equipment – Do Not Use" tag until repairs have been completed.

3.5 Spotters and Flaggers

For activities involving Spotters and/or Flaggers, reference UPF-CP-227, *Safety Watches*. Applicable Personal Protective Equipment requirements are detailed in UPF-CP-205, *Personal Protective Equipment and Safe Work Apparel*.

3.6 Construction Phase Assessments

The Vehicle Safety Management System (VSMS) should be reviewed throughout the course of the project with both formal and informal assessments. The ES&H Representative is responsible for leading assessments, in conjunction with a representative from the construction organization, to evaluate the implementation and effectiveness of the VSMS. Lessons learned through the assessment process are to be shared with project and all other appropriate personnel:

- Project assessments should occur at least once every 6 months, unless otherwise noted by the Global Business Unit ES&H Manager.
- Proactive measures should be taken to resolve driver vehicle safety concerns identified through applicable driving observation programs, and should be used during evaluation of a VSMS assessment process.
- Assessments are performed in accordance with UPF Procedure Y15-95-817, *UPF Management Assessments (MA) Program*, where required.

4.0 RECORDS

None

5.0 REFERENCES

5.1 Source References

Bechtel ES&H Core Process 229, *Vehicle Safety Management*

OSHA 29 CFR 1926.601, *Motor Vehicles*

OSHA 29 CFR 1926.602, *Material Handling Equipment*

OSHA 29 CFR 1926 Subpart CC, *Cranes and Derricks in Construction*

U.S. Department of Transportation, *Federal Highway Administration, Manual on Uniform Traffic Control Devices (MUTCD)*

5.2 Interfacing References

49 CFR 571.208, *Occupant Crash Protection*

CNS 02.03.14.06.05, *Planning, Performing, Documenting, and Reporting a Management Assessment*

Y15-95-817, *UPF Management Assessments (MA) Program*

Y17-95-64-851, *UPF Construction Equipment Maintenance*

Y17-95-64-871, *UPF Construction Hoisting and Rigging Work Operations*

UPF-CP-205, *Personal Protective Equipment and Safe Work Apparel*

UPF-CP-227, *UPF Safety Watches*

5.3 Forms

None

6.0 SUPPLEMENTAL INFORMATION

Appendix A, *Acronyms and Definitions*

APPENDIX A
Acronyms and Definitions

(Page 1 of 2)

Acronyms

ES&H - Environmental Safety and Health 4
MCD - Mobile Communication Device 8
UPF - Uranium Processing Facility 4
VSMS - Vehicle Safety Management System 11

Definitions

Driver	The driver is the authorized operator of the motor vehicle/equipment or utility/golf cart. The driver controls the vehicle/equipment/cart and by virtue of skill and training, transports cargo or people between two points.
Flagger	A person who actively controls the flow of vehicular traffic on public streets and highways into and/or through a temporary traffic control zone using hand-signaling devices.
Heavy Equipment	Self- propelled or mobile construction equipment, such as dozers, scrapers, excavators, graders, semi-trailer trucks, and dump-bed trucks (single, dual, and tri-axle), equipment designed to move or lift heavy loads or supply heavy driving force.
Highway	A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.
Spotter	Project personnel identified by an operator (or supervisor) capable of assisting with identifying hazards and obstacles that may be in the operator's blind spot.
Street	Refer to Highway
Temporary Traffic Control Zone	An area of a highway where road user conditions are changed because of a work zone or incident by the use of temporary traffic control devices, Flaggers, uniformed law enforcement officers, or other authorized personnel.

APPENDIX A
Acronyms and Definitions

(Page 2 of 2)

Unattended	A condition where a vehicle or heavy equipment is not under constant supervision from within the vehicle, or within the vicinity of the vehicle, and is not within clear eye sight. For the purpose of warming up the vehicle during cold weather conditions, one individual may supervise, or attend, multiple vehicles within close proximity of each other.
Vehicle	A vehicle powered by internal combustion engines (e.g., diesel, gasoline, or LPG) or battery powered. Vehicles designed to haul passengers or light loads over public access roads and highways. Vehicles are licensed and approved for public road transportation. Examples of such equipment include passenger vehicles, vans and light duty “pick-up” trucks, or service and vendor trucks.
Utility/Golf Cart	A small type of vehicle powered by an internal combustion engine or battery powered. Vehicle is designed to transport personnel, equipment, and material within the UPF Site boundaries.
Vehicle Safety Management System (VSMS)	The VSMS is comprised of the procedures, education/training, and site- specific requirements developed and implemented on a project to achieve suitable controls and minimize personnel exposure and property damage relating to vehicles and road transportation. A 360 degrees walk around inspection of the vehicle/equipment/cart is mandatory and is to include inspection of the vehicle’s surroundings to ensure there are no obstructions that will impede access or egress of the vehicle in and from its current location.