THE NATION'S URANIUM PROCESSING FACILITY

UPF JOB HAZARD ANALYSIS

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JHA NO.:	**JHA-00737**		**REV:**	**5**	**ISSUE DATE:**	**8-5-26**
JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**			
Hand & Power Tools	Hand, Air and Electrical Tools	Improper Use of Tools/Equipment Laceration/Grinding Wheel Failure Fire Electric Shock Inhalation of Carbon Monoxide, Nitrogen Dioxide, and/or Other Combustion Gases, Chemical Asphyxiation Struck-by Abrasion	Review the applicable work activities and implement the associated work controls listed in **JHA-00721,** *Hand and power Tools*.			
Drill Presses	Drill Presses (Floor, Bench, and Magnetic) Manufactures Recommendations	Crushing Striking Entanglement Hot Objects and Components Flying Particles	· Always be sure the machine support is securely anchored to the floor or the work bench			
			· Do not overreach. Keep proper footing and balance at all times			
			· Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting			
			· Keep guards in place and in proper working order. Do not operate the machine with guards removed			
			· Never leave the machine running while unattended. Machine shall be shut off whenever it is not in operation			
			· All work shall be secured using either clamps or a vise to the drill press table. It is unsafe to use your hands to hold any workpiece being drilled			
			· Never brush away any chips while the machine is in operation. All clean up should be done when the machine is stopped			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
			· Keep hands in sight and clear of all moving parts and cutting surfaces. Do not put hands or fingers around, on, or below any rotating cutting tools	
			· Reference ML-SH-80176-A002, *UPF Eye and Face Protection List*	
			· Ensure drill press is grounded in accordance with the National Electrical Code and local codes and ordinances	
Threading Machines	Threading Conduit (includes Hand-Held)	Crushing Striking Entanglement Hot Objects and Components Flying Particles	· Keep handles and grasping surfaces dry, clean and free from oil and grease	
			· Secure machine to bench or stand. Support long heavy pipe with pipe supports	
			· Do not overreach. Keep proper footing and balance at all times	
			· Restrict access or barricade the area when work piece extends beyond machine to provide a minimum of (3-4 feet) clearance from the work piece	
			· While operating the machine, stand on the side where the operator control switch is located	
			· Keep hands away from rotating pipe and fittings. Allow the machine to come to a complete stop and remove your foot from the foot pedal/shroud. Ensure the machine and material have completely stopped before touching the material, machine chucks, wiping pipe threads, or screwing fittings on or off	
			· Do not use this machine if the foot switch is broken or missing	
			· One person must control the work process, machine operation and foot switch	
			· Never reach into the machine front chuck or rear centering head	
			· Never use a tool or any securing device to hold material while it is rotating and/or while an operator's foot is within the foot pedal shroud. DO NOT use the threading machine as mechanical assistance to loosen or attach fittings	
			· Never leave the machine running while unattended. Machine shall be shut off whenever it is not in operation	
			· Always firmly hold the power drive when threading or backing die head off the pipe to resist threading forces, regardless of support device use. (Hand-Held 700 Power Drive)	

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			· When threading 1" or larger pipe, use support device to resist threading forces. Use an appropriate support device per manual instructions. Pipe ¾" and smaller nominal dimension can be threaded without the use of support device. (Hand-Held 700 Power Drive)

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Activity	**Sub-Activity**	**Hazard**	**Control**			
Bending Machines	Bending Conduit	Electric Shock Pinch Points Caught Between Struck By	• Connect the power cord to a 120-volt, 20-amp receptacle on a ground fault protected circuit only. • Do not modify the power cord or plug. • Inspect the power cord before use. Repair or replace the cord if damaged. • Disconnect from power before servicing. • Do not remove guards. • Make sure that the handle is properly installed and secured with the safety spring clips and snap pins before lifting or moving the bender. An improperly installed handle could allow the bender to fall, injuring nearby personnel. • Keep hands away from bending shoe, rollers and conduit when bender is in use. • Unplug the bender before changing accessories. Accidental start-up could result in serious injury. • Conduit moves rapidly as it is bent. The path of the conduit must be clear of obstructions. Be sure clearance is adequate before starting the bend. • When manually removing or adding bend to a previously bent conduit, maintain positive control of the conduit and place one end of the conduit in or under a sturdy location. This location needs to be strong enough and heavy enough to secure the end of the conduit according to the conduit size and thickness. • Do not operate the bender while wearing loose clothing. Loose clothing can get caught in moving parts. • Inspect the bender before use. Replace worn, damaged or missing parts with genuine replacement parts. A damaged or improperly assembled component could break and strike nearby personnel. • Some bender parts and accessories are heavy (more than 30lbs) and may require more than one person to lift and assemble. • Use this tool for the manufacturer's intended purpose only. Use other than that which is instructed in this manual can result in injury or property damage.		

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Activity	**Sub-Activity**	**Hazard**	**Control**			
Portable Band Saws	Portable Band Saws	Laceration	All portions of band saw blades will be enclosed or guarded, except for the working portion of the blade between the bottom of the guide rolls and the table Band saw wheels shall be fully encased.			
			Always adhere to the following requirements:			
			· Keep hands away from cutting area and blade.			
			· Always keep both hands on the tool handles.			
			· Always keep your hands out of the line of the band saw blade.			
			· Ensure the material being cut is secured via approved methods (i.e., bench vise, c-clamp).			
			NOTE: Never hold the material that is being cut!			
			· Always wait until the motor has reached full speed before starting a cut.			
			· Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/ or battery pack, picking up or carrying the tool.			
			· Remove any adjusting key or wrench before turning the power tool on.			
			· Do not overreach. Keep proper footing and balance at all times.			
			· Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.			
			· Do not force the power tool. Use the correct power tool for your application.			
Manual Material Handling	Pallet Jack Use	Muscle Strain/Sprain Ergonomics Pinch Points Crushed By Struck By Caught Between	· Do not overload the machine. Be aware of dynamic loading! Sudden load movement may briefly create excess load causing product failure			
			· Use as intended only. Do not use machine to support personnel			
			· Always load the machine evenly and centrally			
			· Keep clear of fork and load while raised			
			· Only use on flat, level surface able to withstand weight of machine and load			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
			· Never leave a loaded machine unattended the load must always be lowered when not in use	
			· Inspect before every use do not use if parts are loose or damaged.	
Manual Material Handling	Manual Material Handling	Muscle Strain/Sprain Ergonomics Pinch Points	· Supervisors will be trained in the basics of manual material handling, hazards and basic controls, and conducting basic risk assessments for material handling work	
			· Where manual handling is unavoidable, the supervisor will conduct an informal risk assessment as part of the FLHA process and follow up with employees before work starts	
			· Inspect for shifted loads, stored energy, or loose items prior to unloading	
			· Keep hands and arms clear when stacking material	
			· Remove/protect sharp edges with "softeners" prior to lifting	
			· To understand safe lifting limits during manual material handling, refer to OT-SH-801768-A128, *UPF Ergonomics Lifting Guidelines*	
Manual Material Handling	Manual Material Handling	Carrying material and line of fire	· While carrying conduit, maintain positive control of the material at all time. When carrying or lifting conduit make sure to orientate the conduit to where the heaviest part is facing down (I.E. always have the bend of a 90 face the ground.) While holding or handling conduit make sure to position conduit at waist height and not at face level. · Inspect materials on a stable work surface whenever feasible · Use material supports, racks, or fixtures to stabilize items during inspection · Maintain materials below shoulder level when carrying and/or inspecting · Do not position rigid materials near the face · Pause physical handling when engaged in discussion or instruction from peer or supervision · Identify secondary handling risks during FLHA review	
Manual Material Handling	Manual Material Handling	Improper Storage of Hazardous Materials	· Hazardous materials must be stored in containers compatible with the material and in a way that protects human health and the environment from unintended exposure to the hazards associated with the materials	

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		Spill Fire	· A "first in, first out" storage strategy must be used to help Ensure material does not expire and become a waste product
			· Storage must be performed in accordance with the completed UCN-23353 and SDS requirements, paying attention to storage temperatures, to prevent product degradation and thus waste generation
			· Storage areas must be kept organized so materials can be properly inspected, inventoried, and segregated considering their compatibility
Hazardous Material Use	Labeling of Hazardous	Inadequate Hazard Communication	· Labeling of hazardous materials shall be in accordance with Appendix B, *Container Labeling Instructions*

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Activity	**Sub-Activity**	**Hazard**	**Control**			
	Materials (i.e., cutting and threading oils)		· Labels shall have the Product Identifier and words, pictures, symbols, or a combination thereof that can provide employees with the specific information regarding the physical and health hazards of the hazardous chemical			
			· Project Personnel may transfer hazardous materials from a bulk container to a suitable portable container for immediate use during their shift only			
			· Individual stationary containers (e.g., storage tanks) must have signs, placards, or other appropriate signage attached to them that contain the same information as a manufacture's original label			
Hazardous Material Use	Use and Disposal of Hazardous Materials	Contact with Chemicals (adsorption, inhalation, ingestion, Asphyxiation) Improper Disposal of Hazardous Materials	· Contact IH or ES&H Representative if UCN-23353 SDS Evaluation Form is not completed for the specific chemical/product that you are working with			
			· Review UCN-23353 and the Safety Data Sheet (SDS) of the chemical/product prior to starting the work			
			· Follow the assigned work controls specified in the SDS Evaluation Form			
			· Disposal of hazardous materials shall be in accordance with the completed UCN-23353 for the given product/chemical and in accordance with PL-SH-801768- A002, *Construction Waste Management Plan for the Uranium Processing Facility*			
Dropped Object Prevention	General Requirements	Dropped Objects	Review the applicable work activities and implement the associated work controls listed in **JHA-00715,** *Dropped Object Prevention*			
Personal Protective Equipment (PPE)	Hearing Protection - Noise Levels Between Eighty-Five (85) and Ninety-Nine (99) dBA.	Noise	· Refer to ML-SH-801768-A011, *Sound Levels of Common Construction Power Tools*			
			· Wear approved single hearing protection devices with a minimum NRR of 21			
			· Barricade and Signage:			
			o Install caution sign, or caution barricade tape with caution signs or tags requiring hearing protection on the barricade to establish the eighty-five (85) dBA boundary around the work area			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
			o Contact Industrial Hygiene to evaluate noise levels for new/changed work activities or when working in enclosed areas.	
Personal Protective Equipment (PPE)	Hearing Protection - Noise Levels over One-Hundred (100) dBA	Noise	· Reference ML-SH-801768-A011 Sound Levels of Common Construction Power Tools	
			· At a minimum, wear single hearing protection devices with NRR of 33 (i.e. red, white and blue foam earbuds) AND ear muffs	
			· Contact IH or ES&H Representative if the anticipated noise levels are greater than 114dBA prior to engaging in the activity	
			· Use employee and or job rotation to reduce the time of exposure. When performing activities in enclosed spaces such as enclosed cells, pits, vaults or other similar spaces that may adversely affect noise levels or where multiple noise sources are present contact ES&H for further evaluation	
			· Barricade and Signage:	
			o Install danger barricade tape with danger signs or tags to identify the one hundred (100) dBA boundary area	
			o Identify area outside of danger barricade with caution single hearing protection required signs. Contact IH to evaluate size of these boundaries	
			o Contact IH to evaluate noise levels for new/changed work activities or when working in enclosed areas.	
Barricades and Signs (Life Critical Activity)	General Requirements	Improper Hazard Control and Communication	Review the applicable work activities and implement the associated work controls listed in **JHA-00712,** *Barricades, PPE, and FLHA*	
Safety Watch	Process	Emergency	In the event of an emergency, individuals performing Safety Watch duties are to discontinue the assignment and respond to the emergency as required (e.g., Take Cover, Evacuation).	

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Activity	**Sub-Activity**	**Hazard**	**Control**	
Safety Watch	Equipment Watch (Spotter)	Moving Equipment	· The sole purpose of a Spotter is to assist an equipment operator in maintaining adequate clearance between the equipment and hazards. The operator and Spotter(s) will jointly identify and discuss responsibilities, method of communication, location of the Spotter(s), blind spots, and resources needed to execute the task successfully leveraging the Field Level Hazard Assessment (FLHA) process	
			· The following practices should be considered when planning the activity:	
			o Achieving eye contact and an acknowledgment from the equipment operator before walking near or around heavy equipment	
			o Never having Spotters stand within the blind spot of equipment operators or truckers	
			o Never allowing personnel to stand within the swing radius of equipment while it is operating	
			o Checking around and underneath trucks and equipment for personnel before operating them	
Safety Watch	Overhead Safety Watch	Dropped Objects	An Overhead Safety Watch is utilized to protect personnel from hazards created during elevated work. Examples include:	
			· Short duration tasks with low-risk for dropped objects or similar hazards (e.g., inspections, moving cords, layout/measurements)	
			· Work activities in remote areas that are not heavily populated or congested with pedestrians/personnel and will not be impacted by concurrent work activities (e.g., parking lots, laydown areas, etc.)	
			· In conjunction with a barricade for elevated work/overhead hazards (e.g., when 2:1 ratio of barricade cannot be achieved)	

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Activity	**Sub-Activity**	**Hazard**	**Control**			
			· Prior to implementing an Overhead Safety Watch, the task/application must be evaluated by the Responsible Superintendent (Discipline Superintendent) and documented on the applicable FLHA for the activity			
			· When an Overhead Safety Watch is used, the following will apply:			
			o The Overhead Safety Watch must be strategically located to control and restrict all non-essential personnel and vehicular traffic from entering the overhead work area. Multiple Watches may be required for activities with a larger hazard area or work areas with blind spots			
			o The Overhead Safety Watch will notify approaching personnel of the overhead hazard and prevent access to areas below overhead work for the duration of the work			
			o The Overhead Safety Watch will perform tasks from a safe location and remain clear of line-of-fire hazards created by the elevated work activities			
			o If access to a work area below the elevated work is required, the Overhead Safety Watch shall stop the elevated work and have it placed in a safe configuration before allowing workers in the area.			
Personal Protective Equipment (PPE)	Hearing Protection	Noise	Workers are responsible for complying with the requirements of the HCP, including the following:			
			· Wear required hearing protection PPE (e.g., earmuffs and/or earplugs)			
			· Wear noise dosimeter devices, as assigned by PIH or ES&H Representative			
			· Follow HCP-required safety postings			
			· Attend or participate in HCP training or other requirements (e.g., audiograms)			
			Noise hazards will be assessed as part of the work planning process via job hazard analysis (JHA). In addition, workers will review noise hazards and hazard controls at the work location daily (or more frequently as appropriate) via the Field Level Hazard Assessment (FLHA) process			

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Activity	**Sub-Activity**	**Hazard**	**Control**			
			Workers must wear hearing protection devices when any of the following situations or conditions applies:			
			· Waiting for a sound-level survey to be completed			
			· Performing a task whose work documents (e.g., JHA, FLHA) and/or this program require workers wear hearing protection			
			· Working in or passing through posted noise hazard locations as specified by the area postings or signs			
			· Using tools designated as high-noise equipment.			
Field Level Hazard Assessment (FLHA)	Field Level Hazard Assessment Process	Unidentified and Unmitigated Hazards	· FLHA is a pre-task briefing that must be used daily by crews at the beginning of their work shift or when new tasks are undertaken. It is a process of employee participation to identify and mitigate environmental, safety, and health risks and hazards associated with their planned work that day. The JHA process must not replace, or be a substitute for, the daily FLHA process.			
Field Level Hazard Assessment (FLHA)	Implementing Field Level Hazard Assessment	Unidentified and Unmitigated Hazards	Prior to beginning work activities each day or after an extended break or interruption (e.g., shift change, weekend), perform the following:			
			· Perform a Walkdown and review the work location with involved personnel			
			· Review area hazards to ensure they are identified and hazard controls/mitigations are in place to eliminate/reduce them			
			· Ensure there are no new hazards unidentified and uncontrolled by the approved JHA			
			Using UCN-23552, perform the following:			
			o Conduct a FLHA briefing with the work crew and support disciplines			
			o Resolve any issues/concerns with the work crew			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
			o List and discuss the scope of work, anticipated hazards, and controls/mitigation measures for the work to be performed	
			o Ensure personnel document participation in the "Employee" section of UCN-23552	
			o Conduct appropriate FLHA briefings when any of the following conditions exist:	
			· The work area changes	
			· Personnel with different classifications will be working in close proximity	
			· Differing types of work are performed in close proximity	
			· The work activity changes	
			· The Responsible Superintendent deems it necessary	
			· Turn in completed forms (i.e., UCN-23552, UCN-23464, UCN-23544, CFN-1268) as applicable at the end of each shift at the designated collection points. The end of shift review/de-briefing section must be completed before submitting these forms to UPF DMC.	
Scaffold Use (Life Critical Activity)	Scaffold User	Unauthorized Use Fall to Elevation Below Slips and Trips	· Never access any scaffold without documented evidence of inspection by a designated Competent Person for scaffolding before each work shift	
			· Obey the scaffold requirements at all times	
			· Never use any scaffold without a proper tag that displays the current day's date. Scaffold requirements include strict adherence to the color-coded tagging system of red (Danger—Unsafe for Use), yellow (Caution), and green (Safe for Use) tags, as appropriate	
			· Never access a red-tagged scaffold. Only authorized scaffold builders are permitted to access a red-tagged scaffold, and they are required to wear fall protection	
			· Never access a yellow-tagged scaffold without proper fall protection	

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Activity	**Sub-Activity**	**Hazard**	**Control**			
			· Consider all scaffolds without tags as red-tagged scaffolds			
			· Never alter or modify a scaffold, unless you are a designated Competent Person, who is qualified and authorized to do so			
			· Touching-the-tag before each use to ensure a scaffold inspection has been completed for the shift			
			· Never access any scaffold without a documented and tagged daily inspection. Inspect the scaffold prior to use, looking for holes in the platform, missing handrails and other potential hazards			
			· Never access a red-tagged scaffold. Only authorized scaffold builders are permitted, and they must wear required fall protection			
			· Never access a yellow-tagged scaffold without 100% tie-off or fall protection			
			· Indicating on the scaffold request when intended use will require scaffold capacity greater than light duty (i.e., 25 pounds per square foot [psf])			
			· Ensuring scaffold is not loaded in excess of its duty rating			
			· Maintaining housekeeping and accumulation of materials to prevent dropped objects			
			· Notifying scaffold erectors when pearl weave, toe board, or other dropped object prevention controls need repair			
			· Utilizing barricading, as required, when scaffold dropped object controls (e.g., mesh, toe boards) are incomplete OR when hoisting material outside of the dropped object confines of the scaffold			
Scaffold Use (Life Critical Activity)	Scaffold Safety	Unauthorized Use Fall to Elevation Below Slips and Trips	· Climbing on scaffolding components (e.g., cups, rings, diagonal members) is not allowed			
			· Free Climbing scaffold structures in any direction above a height greater than 6 ft without using a Personal Fall Arrest System (e.g., harness and retractable lifeline) tied off to an acceptable anchor point is not allowed			
			· Ensure an adequate working surface during erection/dismantlement activities			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
Work at Heights (Life Critical Activity)	General Requirements	Fall to Elevation Below	Review the applicable work activities and implement the associated work controls listed in **JHA-00717,** *Elevated Work*	
Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	General Requirements	Contact with Surrounding Structure, Equipment, or Commodities Fire Entrapment Limited Access/Egress Dropped Objects Electrical Shock Fall to Elevation Below	· Never operate any mechanical elevated work platform without documented training	
			· Never stand on the toe board, mid-rail, or top rail of the basket	
			· Never work from the basket without being tied off to the manufacturer's designated anchor point, even during ground positioning	
			· Never exit the basket at height unless prior, documented approval for the deviation has been obtained from Project ES&H personnel	
			· Follow the operating requirements defined in UPF-CP-224, *UPF Aerial/Scissor Lift Operations*, which apply to all construction site and support area personnel, including subcontractors	
			· Never operate an aerial/scissor lift that has not been inspected by a trained operator, in accordance with the requirements specified in UPF-CP-224. At the beginning of each shift or before each use, a trained operator will visually inspect and functionally test the lift and document the results on an approved form	
			· Ensure the lift style in use is appropriate for the work task and location (e.g., indoors versus outdoors)	
			· Follow all directions related to adverse weather conditions, including lightning and high wind speeds	
			· The operator/safety manual(s) are to be maintained with the equipment provided they can be protected from the elements. If this cannot be accomplished, a hard copy may be stored in a central location as determined by the Project Distributable Superintendent	
			· All controls must be plainly marked as to their function	

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Activity	**Sub-Activity**	**Hazard**	**Control**			
			· All capacity and warning decals will be in place, secure, and legible, at both the platform/basket and ground stations			
			· All aerial/scissor lifts must be equipped with an ABC-rated fire extinguisher in the platform/basket. The fire extinguisher shall be secured in a manner as to prevent displacement of the extinguisher. Scissor lifts must be equipped with a fire extinguisher 2.5 lbs. or greater. Aerial (boom) lifts must be equipped with a fire extinguisher 10 lbs. or greater			
			· Boom-type aerial lifts must be equipped with anti-entrapment devices			
			· Aerial/scissor lifts are to be inspected daily before use or at crew/shift change and documented on a UCN-23248, *Aerial/Scissor Lift Daily Checklist*			
Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	Operating Requirements	Contact with Surrounding Structure, Equipment, or Commodities Fire Entrapment Limited Access/Egress Dropped Objects Electrical Shock Fall to Elevation Below	Only trained and qualified personnel shall operate aerial or scissor lift devices in accordance with the following:			
			· All personnel must wear an approved PFAS in accordance with the requirements of Section 3.0, *Fall Prevention and Protection*			
			· The basket or platform of the aerial/scissor lift will not be loaded in excess of the design lifting load capacity. The weight of personnel, tools, and materials in aerial/scissor lift baskets or platforms will be included as part of the total load capacity. If material cannot be contained inside the aerial/scissor lift basket or platform, obtain approval from the Responsible Supervisor and an ES&H Representative, and document on the FLHA Card before lifting the material			
			· Aerial/scissor lift platform or basket will not be secured to any structure for any reason nor be allowed to rest on any structure			
			· When aerial/scissor lift equipment is used with outriggers, outriggers shall be positioned on a solid surface			
			· Personnel shall stand firmly on the floor of the basket/platform and shall not sit or climb on the edge of the basket/platform or use planks, ladders, or other unapproved devices for work positioning			

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**			
			· Personnel riding in the equipment should keep their hands off the handrail when raising or lowering the basket use interior grab rail for balance when provided			
			· Do not tie electrical cords, welding leads, or hoses to an aerial/scissor lift when operated (traveling horizontally or vertically)			
			· When at the work location, the operator should engage the emergency stop function and close the platform mounted control panel cover (if equipped) to prevent accidental movement			
Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	Exiting Aerial/Scissor Lifts at Elevation	Limited Access/Egress Dropped Objects Electrical Shock Fall to Elevation Below	Aerial/scissor lifts may be used to access elevated work areas or structures by exiting or entering the lift platform under the following requirements: • There is no other established safe access to the work area (e.g., stairs) • The job must be evaluated to ensure the use of an aerial lift is the safest means to access the elevated area or structure • The Responsible Supervisor for the work and an ES&H Representative must approve the activity and document the approval on CFN-1323 • Personnel must use the lift manufacturer's access point (e.g., gate, slide bar) when entering or exiting the lift Personnel must ensure 100% tie-off is maintained throughout the transition from the lift to the elevated area or structure, from the elevated area or structure to the lift, and while performing work on the elevated area or structure			
Ladders	General Requirements	Fall to Elevation Below Dropped Objects	All portable ladders purchased or used on the Project shall meet minimum specifications, including:			
			· Ladders must be vendor-certified as American National Standards Institute (ANSI) Type 1A or greater			
			· Only nonmetallic ladders will be purchased and used on the site (fiberglass ladders are recommended)			
			· Tripod ladders (ladders with three legs) are prohibited			

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:** **N/A**	**SPECIFIC LOCATION:** **N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**	
			· Straight ladders longer than 20 feet are prohibited	
			· Extension ladders longer than 36 feet are prohibited	
			· Stepladders and platform ladders longer than 12 feet are prohibited	
			· All portable ladders will be equipped with nonskid feet	
Ladders	Ladder Use	Fall to Elevation Below Dropped Objects	Inspect ladders prior to use to verify:	
			· All hardware and fittings are securely attached and the movable parts operate freely without binding or undue play	
			· Ladder rungs are free from grease, oil, mud, and other materials	
			· Ladder safety feet and other auxiliary equipment are in good condition	
			· Ladder does not have any broken or missing steps, rungs, cleats, broken side rails, or any other faulty equipment	
			When using a ladder: • Do not use ladders in any manner other than their intended purpose • Two or more people will not work from the same ladder unless it is specifically designed for two people • Place portable ladders on a level and stable surface and secure them or have them held by another person to prevent slipping • Personnel shall face the ladder when ascending or descending and use both hands to grasp the ladder • Do not carry materials or tools in hands while ascending or descending ladders • If working from portable ladders, then remain within the confines (side rails) of the ladder • Prevent unauthorized entry in the area below the ladder with barricades or flagging when overhead hazards are present during ladder use • Do not stand on the platform or top step of a stepladder (i.e., top two steps) • Do not sit on or straddle a stepladder to perform work	

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**			
			• When accessing another elevation, extend the top of the ladder 36 inches beyond the upper landing surface. If this is not possible because of the ladder's configuration, install a grab rail(s) 36 inches above the landing to help personnel mount and dismount the ladder			
Ladders	Job-Made Ladders	Fall to Elevation Below Dropped Objects	· In instances where manufactured ladders are infeasible, wooden job-made ladders can be constructed and used. Job-made ladders must comply with the requirements of 29 CFR 1926, Subpart X, *Stairways and Ladders*			
Ladders	Ladder Inspection	Fall to Elevation Below Dropped Objects	· Ladders that do not have the current quarterly color code marking shall be tagged out of service at the point of discovery using a "Do Not Use" tag until inspected and color coded			
			· Ladders that are damaged or defective shall be immediately tagged out of service at the point of discovery using a "Do Not Use" tag and returned to the Tool Crib			
Ladders	Ladder Storage	Fall to Elevation Below Dropped Objects	· When not in use, store portable ladders to protect them from the elements and direct sunlight store ladders away from excessive heat and in areas with good ventilation			
			· Other materials are not to be stored on ladders			
Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	General Requirements	Contact with Surrounding Structure, Equipment, or Commodities Falls Inadvertent Movement Electrical Shock	· The operator is to ensure adequate clearance is obtained between the lift and structures, equipment, and/or commodities			
			· The operator and/or supervisor to perform a pre-work walkdown and determine the need for a spotter(s) when conditions similar to those listed below are encountered			
			· Area blind spots exist OR			
			· Obstructions exist in the path of planned travel (e.g., clutter, other equipment, other activities) OR			
			· Obstructions exist when raising or lowering the lift OR			
			· Aerial lift tip over potential. Contact supervision and ES&H prior to operating an aerial lift on uneven surface OR			
			· Other (e.g., abrupt edges, holes, tight spots, soft surfaces)			
			· Employees riding or working from any aerial lift must wear an approved safety harness securely connected with a personal fall limiter (6ft SRL) to the lift anchorage point at all times			

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**			
			· To prevent inadvertent lift/platform control activation, engage the Emergency Stop switch when the lift is not in motion			
			· Always treat electrical equipment/cables and components as if they are energized. Any electrical components obstructing the operation of an aerial lift must be removed, properly protected, or managed with the use of a spotter			
			· Standard 120-volt extension cords and 208-volt (single-phase twist lock) extension cords are a tool of the trade and craft persons can plug or unplug these cords after shedding the load (e.g., turning off the welder, tool, or heater)			
			· Only Temporary Power Electricians can plug in, unplug, or route 480-volt cord sets			
			o Only Temporary Power Electricians can operate or reset any breakers in temporary electrical equipment such as panel boards.			
Installation & Removal of Electrical Equipment, Cables, and Accessories	General Requirements	Electric Shock Arc Flash Burns	· Ensure power is isolated, performing a live dead live test to any equipment, devices and cable/conductors			
			· Ensure LOTO is applied and verified prior to accessing existing Electrical equipment and accessories			
			· Always perform the required independent zero energy verification			
			· Arc Flash PPE shall be worn where exposure exists			
			· Ensure installations comply with site procedures and regulations			
			· Cables and leads are installed with the minimum 7' clearance above floor level			
			· Cables are installed on insulated non-conductive supports			
			· Ensure testing is maintained in a barricaded area, to ensure work area is safe for work crews and other workers			

UPF JOB HAZARD ANALYSIS

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**			
			Ensure electrical equipment has the required safe access/egress clearance to disconnecting means:			
			o 36" to 120/208-volt			
			o 42" to 480-volt			
			Standard 120-volt extension cords and 208-volt (single-phase twist lock) extension cords are a tool of the trade and craft persons can plug or unplug these cords, after shedding the load (e.g., turning off the welder, tool, or heater)			
			· Only Temporary Power Electricians can plug in, unplug, route, or relocate 480-volt cord sets			
			- If uninstalling conduit, Cutting the conduit is Prohibited at UPF using any means (e.g. band saw, reciprocating saw). Conduit shall be uninstalled by manually unthreading the conduit. If it is impossible to remove the conduit by unthreading this we be classified as a deviation and must have written documentation and approval using the cut conduit form (CFN-1378) from the Lead Electrical Superintendent, the Lead Field Engineer as well the Site Manager.			
			- To uninstall any conduit installed in the field (I.E. Installed conduit meaning anything that is not being worked in a fab area, such as installed on supports, hangers or attached to any fittings.) shall identify the conduit number of the conduit to be removed, flag the conduit using an easily identifiable means (Cut tap, Survey tap, or label specifically labeling it for cut.) the cables removed from inside the conduit, and the Construction Status of the cables in SETROUTE are in the correct status.			
			-. To process a deviation to cut a conduit installed in the field (I.E. Installed conduit meaning anything that is not being worked in a fab area, such as installed on supports, hangers or attached to any fittings in its permanent configuration), adherence to CFN-1378 will require the proposed cut conduit to be marked twice and peer checked using an easily identifiable means (cut tape, survey tape, etc.), the cables removed and verified removed from inside the conduit, and the Construction Status of the cables and conduit in SETROUTE are in the correct status. If in the rare circumstance that a cable is stuck and unable to be safely pulled back (i.e. conduit is found to be undersized after initial pull), the cable(s) will be verified as de-termed and isolated under the LOTO program and noted as such on CFN-1378 prior to any conduit cutting approvals.			
			- If cables have been turned over to Start-up, ensure any applicable hazard control document has been obtained prior to starting work. This may include an Energy Isolation Permit, Work Authorization, or			

			Electrical Hazard Risk Assessment and Testing Form (ERAT).
Defeating Safety Devices (Life Critical Activity)	Guards / Safety Protection Devices	Unsafe Conditions	Never Disable, bypass, modify, or remove any safety protection devices without written authorization from the Site Manager and ES&H Manager. This includes, but it's not limited to:
			· Disconnect load indicators
			· Remove Guards or handles from rotating equipment or tools
			· Fix or lock triggers and power switches to keep them in the "on" position
			· Hardwire electrical wires into outlets

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JHA TITLE:	**Electrical Conduit and Equipment Installation**		**WORK PACKAGE NUMBER:** N/A	**SPECIFIC LOCATION:** N/A
Activity	**Sub-Activity**	**Hazard**	**Control**	
			· Use damaged or defective equipment and/or tools	
			· Skip or bypass required inspections before using equipment and/or tools	
			· Operate equipment without deploying outrigger pads when they are required	
Construction Blind Penetrations	General Requirements	Release of Hazardous Energy Electrical Hazard Property Damage	This Section applies to any aboveground construction activities, including core drilling of concrete walls and slabs, when the following two conditions exist:	
			· 1. The potential exists for contacting utilities or damaging permanent plant commodities (including drywall studs).	
			· 2. The tool(s) or person(s) involved with the activity will be physically accessing areas where direct visual confirmation of the location of enclosed/hidden hazardous energy sources or permanent plant commodities is not achievable.	
			Exceptions:	
			· Penetrations limited to the thickness of the gypsum board sheet(s) without entering the blind cavity do not require a blind penetration permit (BPP). Examples include self-drilling screws or using a drill stop to limit the depth of penetration.	
			· **NOTE**: CFN-1300 must be completed and approved in accordance with Y17-95-64-902, *UPF Construction Blind Penetrations* prior to physically completing blind penetration activities, including core drilling of concrete walls and slabs, to prevent damage or personal injury.	
Ergonomic Hazard Activities	Various Activities	Musculoskeletal Disorder Injury	Contact ES&H/IH (Radio: Channel 1) to evaluate your work activity if any of the following risk factors are encountered.	
			Risk Factors	

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Activity	**Sub-Activity**	**Hazard**	**Control**			
			The risk of musculoskeletal disorder (MSD) injury depends on work positions and postures, how often the task is performed, the level of required effort and how long the task lasts. Risk factors that may lead to the development of MSDs include:			
			· **Exerting excessive force**. Examples include lifting heavy objects or people, pushing or pulling heavy loads, manually pouring materials, or maintaining control of equipment or tools.			
			· **Performing the same or similar tasks repetitively**. Performing the same motion or series of motions continually or frequently for an extended period of time.			
			· **Working in awkward postures or being in the same posture for long periods of time**. Using positions that place stress on the body, such as prolonged or repetitive reaching above shoulder height, kneeling, squatting, leaning over a counter, using a knife with wrists bent, or twisting the torso while lifting.			
			· **Localized pressure into the body part**. Pressing the body or part of the body (such as the hand) against hard or sharp edges, or using the hand as a hammer.			
			· **Cold temperatures**. In combination with any one of the above risk factors may also increase the potential for MSDs to develop. For example, many of the operations in meatpacking and poultry processing occur with a chilled product or in a cold environment.			
			· **Vibration, both whole body and hand-arm, can cause a number of health effects**. Hand-arm vibration can damage small capillaries that supply nutrients and can make hand tools more difficult to control. Hand-arm vibration may cause a worker to lose feeling in the hands and arms resulting in increased force exertion to control hand-powered tools (e.g., hammer drills, portable grinders, chainsaws) in much the same way gloves limit feeling in the hands. The effects of vibration can damage the body and greatly increase the force which must be exerted for a task.			

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Activity	**Sub-Activity**	**Hazard**	**Control**	
			· **Combined exposure to several risk factors**. May place workers at a higher risk for MSDs than does exposure to any one risk factor.	
			To understand safe lifting limits during manual material handling, refer to OT-SH-801768-A128, *UPF Ergonomics Lifting Guidelines*	
Working with Lead-Lined Drywall	Commodity Installation into Lead-Lined Walls	Exposure to Lead (Pb)	The following two tasks are approved: 1. Installing commodity (Unistrut, brackets) using self-drilling screws. If a pilot hole is required, a HEPA vacuum attachment is required during the drilling. 2. Installing butterfly screw anchors using a HEPA vacuum during the drilling of the pilot hole. Never touch their face, or put fingers in mouth or nose when handling lead products and thoroughly wash prior to touching face, mouth or nose Thoroughly clean face, arms and hands including under finger nails prior to eating, drinking, leaving room or going home Absolutely no food, eating, drinking or using tobacco products permitted in the area where lead is being handled **If the scope of work requires a task not listed above, pause and contact Industrial Hygiene to evaluate.**	
Adjusting Conduit After Installation	Manual Material Handling	Muscle Strain/Sprain Ergonomics Pinch Points	. Where manual handling is unavoidable, the supervisor will conduct an informal risk assessment as part of the FLHA process and follow up with employees before work starts.	
			. Inspect for shifted loads, stored energy, or loose items before work starts.	
			. Keep hands and arms clear when adjusting conduits.	
			. Loosen the support straps and adjust by hand.	
			. If unable to adjust by hand use a rubber mallet, ensuring all body parts are in the clear.	
			. If adjustment is still unsuccessful then remove conduit and adjust bends as necessary.	

THE NATION'S URANIUM PROCESSING FACILITY

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Ensure a new corresponding CFN-1251, *UPF Construction Attendance Sheet*, is signed and inserted in the CWP to document JHA briefing.

PREPARER:	**Derek Whitman**	Derek Whitman	08/05/26
	Printed Name/Signature		Date
APPROVAL:			
ES&H:	Connor McDonnell	Connor McDonnell	08/05/26
	Printed Name/Signature		Date
SITE MANAGER: (COI-CM-801768-A087)	Alex Carlson	Alex Carlson	08/05/26
	Printed Name/Signature		Date

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Revision 4	Revision Tracked Changes -3/4/2026
Revision 4	Page 20 Added: - If uninstalling conduit, Cutting the conduit is Prohibited at UPF using any means (e.g. band saw, reciprocating saw). Conduit shall be uninstalled by manually unthreading the conduit. If it is impossible to remove the conduit by unthreading this we be classified as a deviation and must have written documentation and approval using the cut conduit form (CFN-1378) from the Lead Electrical Superintendent, the Lead Field Engineer as well the Site Manager. -. To uninstall any conduit installed in the field (I.E. Installed conduit meaning anything that is not being worked in a fab area, such as installed on supports, hangers or attached to any fittings.) shall identify the conduit number of the conduit to be removed, flag the conduit using an easily identifiable means (Cut tap, Survey tap, or label specifically labeling it for cut.) the cables removed from inside the conduit, and the Construction Status of the cables in SETROUTE are in the correct status.
Revision 4	Page 5 Added: · While carrying conduit, maintain positive control of the material at all time. When carrying or lifting conduit make sure to orientate the conduit to where the heaviest part is facing down (I.E. always have the bend of a 90 face the ground.) While holding or handling conduit make sure to position conduit at waist height and not at face level. · Inspect materials on a stable work surface whenever feasible · Use material supports, racks, or fixtures to stabilize items during inspection · Maintain materials below shoulder level when carrying and/or inspecting · Do not position rigid materials near the face · Pause physical handling when engaged in discussion or instruction from peer or supervision · Identify secondary handling risks during FLHA review
Revision 4	3/17/26-Page 20 Deleted: Ensure cables are removed prior to removing or modifying conduit.
Revision 4	3/17/26-Page 20 Added: -. To process a deviation to cut a conduit installed in the field (I.E. Installed conduit meaning anything that is not being worked in a fab area, such as installed on supports, hangers or attached to any fittings in its permanent configuration), adherence to CFN-1378 will require the proposed cut conduit to be marked twice and peer checked using an easily identifiable means (cut tape, survey tape, etc.), the cables removed and verified removed from inside the conduit, and the Construction Status of the cables and conduit in SETROUTE are in the correct status. If in the rare circumstance

	that a cable is stuck and unable to be safely pulled back (i.e. conduit is found to be undersized after initial pull), the cable(s) will be verified as de-termed and isolated under the LOTO program and noted as such on CFN-1378 prior to any conduit cutting approvals.
Revision 5	**8-5-26 (Page 2)** Keep hands away from rotating pipe and fittings. Allow the machine to come to a complete stop and remove your foot from the foot pedal/shroud. Ensure the machine and material have completely stopped before touching the material, machine chucks, wiping pipe threads, or screwing fittings on or off Never use a tool or any securing device to hold material while it is rotating and/or while an operator's foot is within the foot pedal shroud. DO NOT use the threading machine as mechanical assistance to loosen or attach fittings