THE NATION'S URANIUM PROCESSING FACILITY

UPF JOB HAZARD ANALYSIS

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JHA NO.:	**JHA-00761**		**REV:**	**3**	**ISSUE DATE:** **05/08/2025**
JHA TITLE:	**Installation of HVAC Duct, Supports and Associated Hardware**		**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.*		
Grinding Activities	Grinding Activities on Uncoated Metal	Flying Particles (Debris) Grinding Wheel Failure Loss of Tool Control - Laceration (Grinding Activities) Burn Fire (Hot Work)	· Reference ML-SH-801768-A002, UPF Eye and Face Protection List.		
			· Ensure the grinding wheel is rated for higher revolutions per minute (RPM) than the grinder. Ensure the guard is on the grinder.		
			· Use the tool handle(s) to maneuver the grinder		
			· Hand-held grinders shall be equipped with a constant pressure switch		
			· Wear a shirt, jacket (or equivalent) made from heavier materials (e.g., heavy cotton, denim) that overlap footwear to prevent spatter from entering		
			· Wear pants/trousers made from heavier materials (e.g., heavy cotton, denim) that overlap footwear to prevent spatter from entering		
			· Wear clothing that is free from pockets, hoods, or cuffs that can trap sparks or slag. Keep sleeves and collars buttoned		

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			· 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!*		
			NOTE: *Pockets that are covered or equipped with closeable flaps are acceptable. If not in a Designated Hot Work Area, contact the Permit Authorizing Individual (PAI) for a Hot Work Permit and follow the permit requirements.*		
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		
			· 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		

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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.		
Jacks--Lever, Screw, Hydraulic, and Ratchet	Jacks--Lever, Screw, Hydraulic, and Ratchet	Potential Energy Release (Mechanical)	When using jacks, perform the following:		
			· Verify the manufacturer's rated capacity is marked legibly on each unit		
			· Verify the presence of a positive stop to prevent over-travel on all jacks		
			· When the potential exists for slippage from the metal cap of the jack, establish a firm foundation during a lift by setting in place blocking and cribbing at the base of the jack and a wood block between the cap and the load		
			· Crib, block, or otherwise secure a load immediately after it has been raised		

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			· Lubricate jacks at regular intervals and inspect them frequently, but not less frequently than the following:		
			o Once every six months for constant or intermittent use		
			o When jacks are sent out of shop for special work or when returned		
			o When a jack is subjected to abnormal load or shock, immediately inspect before and after use		
			· Examine repaired jacks and associated replacement parts for possible defects		
			Tag defective jacks and take out of service until repaired		
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		
			· 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		

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			· To understand safe lifting limits during manual material handling, refer to OT-SH-801768-A128, *UPF Ergonomics Lifting Guidelines*		
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)	General Requirements	Various Construction Hazards	Review the applicable work activities and implement the associated work controls listed in **JHA-00712,** *Barricades, PPE, and FLHA*		
Fire Prevention and Protection	General Requirements	Fire	Review the applicable work activities and implement the associated work controls listed in **JHA-00719,** *Fire Prevention, Protection, Hot Work and Welding*.		
Fire Prevention and Protection	Fire Occurrence	Fire	In the event of a fire, personnel are primarily responsible for evacuating themselves and others safely from the fire area. The discoverer of the fire shall perform or direct the following three immediate actions: **Step 1** – Yell "FIRE" to notify those in the immediate vicinity. **Step 2** – Notify the Y-12 Operations Center (OC) by: o Activating a fire alarm (pull box), if available o Calling 911 from a Y-12 landline o Calling Y-12 OC at (865) 574-7172 from a cell phone o Contacting the OC via Channel 1 from a Project radio o Contacting the supervisor/superintendent and providing any information regarding the fire and its location (to be forwarded to the Y-12 OC) **NOTE**: Use the phonetic alphabet when calling the OC to avoid confusion identifying the building location. **Step 3** – Only after reporting the fire, personnel may voluntarily attempt to fight a small, early-stage fire using an available portable fire extinguisher. This voluntary action should be taken only if personnel believe it is within their capability to safely extinguish or contain the fire, a safe escape route is readily available, and there is no immediate danger.		

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Barricades and Signs (Life Critical Activity)	General Requirements	Improper Hazard Communication	Review the applicable work activities and implement the associated work controls listed in **JHA-00712,** *Barricades, PPE, and FLHA.*		
Liquefied Petroleum Gas Use	Welding on LPG Containers	Fire	Review the applicable work activities and implement the associated work controls listed in **JHA-00713,** *Compressed Gas, LPG, and Inert Gas*.		
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).		
Safety Watch	Fire Watch	Fire Hot Work	A worker assigned as a Fire Watch:		
			· Must wear an orange vest in accordance with UPF-CP-205, Personal Protective Equipment and Safe Work Apparel		
			· Directly observes Hot Work activities to Ensure fire safe conditions, as specified in the Hot Work permit, are maintained. Such observations will continue while Hot Work is in progress or until such a time that the assigned Fire Watch is relieved by another qualified Fire Watch		
			· Will remain at the work area for at least 30 minutes after Hot Work activities have stopped to Ensure no smoldering embers or slag exist. Fire Watches will watch for fires in all exposed areas and notify supervision and other workers in the event of a fire		
			· The Fire Watch ensures that the Hot Work area is barricaded, if required by the permit, and keeps other personnel from entering the barricaded work area		
			· More than one Fire Watch is required if:		
			o Combustible materials that could be ignited by the Hot Work operation and that cannot be directly observed by the initial Fire Watch are present (e.g., when welding or cutting over grating surfaces adjacent to floor and wall openings)		

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			o Fire prevention methods are not sufficient to adequately ensure the prevention of fires. The supervisor responsible for the welding and/or cutting activities then requires additional Fire Watches to guard against fires		
			o The Fire Watch will have the authority to stop welding and/or cutting work activities if unsafe conditions develop		
			In the event of a fire, the Fire Watch:		
			· Follow the Fire Occurrence steps outlined above for proper notification		
			· May attempt to extinguish the fire		
			· The Fire Watch shall notify the ESH-R if any fire extinguishers are discharged so they may be refilled and appropriate clean up and disposal of the material can be completed.		
			Upon completion of the job and after it has been determined that no fires or smoldering materials are present, the Fire Watch returns the fire protection equipment to its original location		
Safety Watch	Confined Space Watch (Attendant)	Confined Space	· A Confined Space Watch, also referred to as an attendant, is required when personnel must enter a permit-required confined space (e.g., vessel, tank, pit,		
			excavation).		
			Workers assigned as a Confined Space Watches must wear orange vests in accordance with UPF-CP-205.		
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		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
			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)		
			· 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		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
			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.		
High Noise Activities	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		
			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.		
Respiratory Protection	Respirator Issuance	Improper use of Respiratory Protection	The process used during issuance of respirators from the issue point is as follows:		
			· User must be clean shaven for tight-fitting face-piece respirators and hooded PAPR with a seal along the face. User will meet requirements for being clean shaven at time of use		

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			· User must provide a current respirator qualification card to the Respirator Issuer indicating the user is qualified to wear a respirator (make, model, and size), and respiratory training is current		
			· User checks the plastic bag containing the respirator to ensure it is sealed		
			· User verifies the correct make, model, and size of the respirator has been issued by the Respirator Issuer		
			· User checks cartridges/canisters provided by the respirator issuer to verify the appropriate cartridges/canisters were provided and the expiration date has not been exceeded		
			· User completes and signs the UCN-23309, *UPF Air Purifying Respirator and Cartridge Issuing OR* ***Subcontractor equivalent***, at the time of initial issuance of a respirator		
			· Users will be issued a respirator, filters/cartridges, a storage bag, and respirator wipes. The user wipes and will install cartridges/canisters on the respirator, if applicable, prior to use		
Respiratory Protection	Respirator Inspections	Improper use of Respiratory Protection	The Respirator User shall adhere to Occupational Safety and Health Administration (OSHA) inspection check procedures and/or manufacturer's recommendations prior to each use.		
			The user inspects the following items before donning respirator:		
			· Tightness of connection		
			· Condition of face-piece		
			· Cleanliness of face-piece/visor		
			· Head straps		
			· Valve and connecting tube		
			· Cartridge/canister		
			· Elastic parts (for pliability)		
			· Respirator function		

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Respiratory Protection	Respirator Seal Checks	Improper use of Respiratory Protection	The Respirator User shall follow the OSHA seal check procedure or manufacturer's recommendations prior to each use.		
			The following are the procedures identified by OSHA:		
			· The user shall conduct negative-pressure seal check on tight-fitting respirators each time they don the respirator and prior to entering the hazardous atmosphere, using the following procedures:		
			o Close off inlet openings of the respirator, canister(s), cartridge(s), or filter(s) by covering with palm of hands by replacing the inlet seal on the canister(s) or by squeezing a breathing tube or blocking its inlet to stop the passage of air		
			o Inhale gently and hold breath for ten seconds		
			o A satisfactory fit is achieved if the face-piece collapses slightly and no inward leakage of air into face-piece is detected		
			· The user shall conduct positive-pressure seal check on tight-fitting respirators each time they put on the respirator and prior to entering the hazardous atmosphere using the following procedures:		
			o Close exhalation valve or breathing tube, or both, then exhale gently		
			o A satisfactory fit is achieved if a slight buildup of positive pressure is generated on the inside of the face-piece and no outward leakage between the sealing surface and the face is detected		
			o If outward leakage is detected, reposition the face seal and/or straps and repeat this sequence until a satisfactory seal check is obtained		
Respiratory Protection	General Use Requirements	Improper use of Respiratory Protection	The Respirator User Requirements during general use are as follows:		
			· Users may make adjustments to respirators (e.g., head straps), but Respirator Users are not allowed to make modifications or interchange parts from other respirators		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
			· Users don respirator in clean areas		
			· Users shall not remove their respirator while in a hazardous atmosphere		
			· Users shall leave the work area to wash face and respirator face piece as necessary to prevent eye or skin irritation associated with respirator use		
			· Users shall leave the hazardous atmosphere immediately if they smell, taste, or otherwise detect vapors inside an air-purifying mask, or if breathing difficulty occurs		
			· When using respirators during a work shift, users are to store and protect their assigned respirators when the respirators are not being worn. The respirators are to be kept clean (e.g., place them back in the bag they came in) and out of the elements, including direct sunlight (e.g., kept in job boxes, in shaded areas, or returned to a drop off location, if no longer required for task). If using for longer than one shift, then respirator shall be cleaned after each shift and stored appropriately (e.g., a cabinet in a temperature-controlled area)		
			· Users are responsible for knowing and following the change-out schedule for cartridges/canisters used		
			· Users' filter/chemical cartridge change out schedule is provided in the JHA		
			· Users contact the supervisor and/or Industrial Hygiene after experiencing respirator mechanical failure, and shall leave the work area immediately		
Respiratory Protection	Voluntary Respirator Use	Improper use of Respiratory Protection	Employees approved for voluntary dust mask use shall be provided the information contained in UCN-23310, *UPF Filtering Facepiece Approval/Issue for Voluntary Use OR* ***Subcontractor equivalent***		
Respiratory Protection	Respirator Malfunction	Improper use of Respiratory Protection	If a respirator malfunctions at any time during the shift:		
			· Immediately leave the area		
			· Report the malfunction to the supervisor and to BNI-IH and BNI RRPA		
Respiratory Protection			Respirator users are responsible for the daily cleaning and proper storage of respirators issued to them, including the following:		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
	Respirator Cleaning and Sanitation	Improper use of Respiratory Protection	· Thoroughly inspect the respirator for damage and replace as needed · Store the clean respirator in a storage bag and keep separate from used P100 filters		
Working with Materials Containing Respirable Crystalline Silica (RCS)	Methods of Compliance	Inhalation of Particulates (Silica)	· For tasks performed indoors or in enclosed areas, provide a means of exhaust as needed to minimize the accumulation of visible airborne dust · For tasks performed using wet methods, apply water at flow rates sufficient to minimize release of visible dust · For measures implemented that include an enclosed cab or booth, Ensure the enclosed cab or booth is maintained as free as practicable from settled dust, has door seals and closing mechanisms that work properly, has gaskets and seals that are in good condition and working properly, is under positive pressure maintained through continuous delivery of fresh air, has intake air that is filtered through a filter that is 95% efficient in the range between 0.3 and 10.0 micrometers (e.g., Minimum Efficiency Reporting Value rating of 16 or better), and has heating and cooling capabilities · If the equipment/task is not listed or does not apply as indicated in Attachment A, then the use of engineering controls and associated work practice controls shall be considered as the primary method for controlling worker exposures to respirable silica dust.		
Working with Materials Containing Respirable	Housekeeping	Inhalation of Particulates (Silica)	· Compressed air cleaning of surfaces or clothing is not allowed unless this method is used in conjunction with a ventilation system that effectively captures the dust cloud created by the compressed air. Workers shall use a ventilation system with a high-efficiency particulate air (HEPA) filter or other approved method to clean surfaces or clothing if necessary		

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JHA NO.:	**JHA-00761**		**REV:**	**3**	**ISSUE DATE:** **05/08/2025**
JHA TITLE:	**Installation of HVAC Duct, Supports and Associated Hardware**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:** **N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**		
Crystalline Silica (RCS)			· Dry sweeping or dry brushing is prohibited where such activity could contribute to applicable project personnel exposure to silica. Use wet sweeping or shoveling, or a HEPA-filtered vacuum cleaner		
			· Concrete slurry (e.g., from dust control methods or excess water from concrete		
			cleaning) shall be removed from work areas by wet vacuuming or other similar methods and placed into appropriate concrete washout bins, containers or other locations to prevent accumulation of silica dust on work surfaces		
Working with Materials Containing Respirable Crystalline Silica (RCS)	Drilling in concrete	Flying Particles Inhalation of Particulates (Silica) Environmental Waste	· Reference ML-SH-801768-A002, UPF Eye and Face Protection List		
			· **Fully and properly implement the engineering controls, work practices, and respiratory protection requirements specified for the equipment/tasks in ML-SH-801768-A010**. For tasks performed using wet methods, apply water at sufficient flow rates determined by Industrial Hygiene. For tasks using local exhaust ventilation, use the tool and any attachments according to the manufacturer's recommendations		
			· For tasks performed indoors or in enclosed areas, provide a means of exhaust as needed to minimize the accumulation of visible airborne dust. If a respirator is required per Table 2, then a minimum of a half face respirator (APF 10) with P100/HEPA cartridges shall be worn		
			· When conducting periodic maintenance of the HEPA vacuums (i.e., changing the bags, filters, etc.) at a minimum wear a half-face respirator (APF 10). Handle parts and components of the vacuum with care not to suspend the material accumulated on the surfaces		
			· Barricade and Signage:		
			o Install danger barricade tape with completed danger signs or tags around the activity that requires respiratory protection to adequately protect adjacent personnel		

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			o Transfer silica dust contained by HEPA vacuum or other removal processes to identified "Special Waste" staging area for disposal (posted area next to the BNI concrete washout area)		
			o Slurry material generated by wet control methods should be collected with other solid concrete debris and transported/deposited in the BNI concrete wash-out area.		
Confined Space Entry (Life Critical Activity)	General Requirements	Engulfment & Entrapment Hazardous Atmosphere Limited Access & Egress	· Never enter a confined space unless you are trained and authorized to do so, and an entry evaluation or permit has been completed		
			· Never enter a confined space unless atmospheric testing has been performed		
			· Never enter a confined space without an approved permit		
			· Never enter a confined space without an attendant at the entrance. Even when an attendant is present, do not enter without an effective way to communicate with the attendant from inside the confined space		
			· Confined spaces include, but are not limited to, sewers, tunnels, underground utility vaults, water towers, storage tanks, process vessels, bins, boilers, and ductwork		
			· These spaces share common characteristics that help us understand what a confined space is.		
			· Characteristics of a confined space include the following:		
			o it is large enough for a worker or workers to enter		
			o it has limited means of entry and exit		
			o it is not designed for people to enter and work in on a regular basis, and it can contain some form of hazard		

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			· Some hazards that can be present in confined spaces are oxygen deficiency, flammable or explosive gases, toxic gases, slips and falls, and electrical and mechanical hazards. Contact ES&H for assistance and evaluation of confined spaces on the construction site		
			· IF a suspect space is confined AND you cannot confirm that a confined space classification was conducted, THEN DO NOT enter the space		
			· Contact supervision to determine if the space was evaluated and classified		
			· IF supervision cannot provide a confirmation, THEN request that ES&H classify the space		
			· Do not enter any confined space prior to contacting ES&H and completing UCN-23273, *Confined Space Entry Evaluation*		
Hot Work	Fire Watch	Fire	Review the applicable work activities and implement the associated work controls listed in **JHA-00719,** *Fire Prevention, Protection, Hot Work and Welding*.		
Lockout/Tagout (Life Critical Activity)	General Requirements	Release of Hazardous Energy Defeating a Safety Device	· Never commence work until all energy sources have been identified and isolated in accordance with procedures		
			· Never remove and/or tamper with any tag and/or lock installed for the safety of personnel.		
			Lock and tag machinery, equipment, components, and/or systems that may contain any type of stored energy before work begins		
			· Eliminate all residual or stored energy before starting any work activities		

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			· The LO/TO program prevents the accidental release of hazardous energy such as electricity, compressed gases, liquids, and steam. The LO/TO program includes requirements for tagging, locking, blanking, capping, or blocking of moving mechanical parts, and for isolating electrical systems to prevent their being energized accidentally or without authorization		
			· You must be trained on work-specific LO/TO requirements to be authorized to lock or tag out equipment and machinery		
			· Never remove and/or tamper with any tag and/or lock installed for the safety of personnel		
			· Prior to work, lock and tag machinery, systems, equipment, components, and/or systems that may contain any type of stored energy		
			· Identify and eliminate all residual/stored energy prior to any work activities		
			· Sign the authorized lockout/tagout EIP permit, as required in accordance with procedures, prior to work activities		
			· Do not perform work on any machinery, system, or equipment covered by LO/TO procedures without authorization or approved training		
			· Never manipulate any machinery, equipment, or system devices covered by any type of a LO/TO or restricted-use tagging permit without authorization and/or if not in accordance with procedures		
			· All panels and circuit breakers shall be easily identifiable with signage and NFPA 70E warning labels		
			· Only qualified electrical workers shall perform zero-energy checks using approved test equipment. Appropriately rated arc flash PPE will be used as required by the warning label or engineering calculation		

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			· All electrical equipment to be inspected prior to use, any damaged equipment to be removed from service and quarantined. Insulating gloves shall be rated for the hazard, air tested for holes prior to use, and maintained with proper annual testing records		
			· Check access and escape routes are clear at all times		
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		
			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		

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			· 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.		
Field Level Hazard Assessment (FLHA)	Startup Operations	Unidentified and Unmitigated Hazards	For Startup operations, implement the FLHA process identified in Section 3.5, *FLHA Process*. For Startup Testing and test support activities, use UCN-23464. For Startup Preventive Maintenance activities, use UCN-23544.		
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		
			· 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		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
			· 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 pearlweave, 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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Hoisting and Rigging Work Operations (Life Critical Activity)	General Requirements	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	Review the applicable work activities and implement the associated work controls listed in **JHA-00722,** *Hoisting, Rigging, and Material Handling*.		
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*.		
Creating Floor and Wall Openings	Walking/Working Surface Modification	Fall to Elevation Below Dropped Objects	Activities performed by personnel creating a floor hole or modifying existing walking/working surfaces (deemed safe for use via primary fall prevention measures) shall be controlled through a UCN-23432, *Walking/Working Surface Modification Permit*.		
			The requirements of the permit include:		
			· Only those Crafts who are specifically trained to perform such work (e.g., structural steel ironworkers, carpenters) will be allowed to remove/replace the cover/grating/floor plate/handrail		
			· A standard guardrail system shall be installed around any potential opening that presents a fall hazard. All access points to the area shall be equipped with a swing gate or equivalent and properly marked, "(Danger – Fall Protection Required beyond This Point)"		
			· Fall protection must be provided and used by those working inside the barricaded area		
			· Walking/working surfaces below the work area shall be evaluated for dropped objects or other hazards to personnel below. As necessary, the area(s) below the work area shall be barricaded to prevent access, protecting personnel from exposure to dropped objects		

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			· Illumination needs shall be evaluated prior to the start of work and additional lighting shall be provided, where required. The remaining grating/floor plate/handrail bordering the removed grate(s)/floor plates(s) sections must be protected from movement or slippage by securing with wire, clips or other means capable of preventing displacement		
			· Removed material must be set in an area so as not to create a tripping hazard or interfere with other work activities. Stacks or bundles of removed material must be organized and stored in accordance with floor-loading limits		
			· When reinstalling covers/grating/floor plate/handrail, the Supervisor shall verify all material has been completely re-installed, correctly positioned, and properly fastened/secured		
			· When all items have been reinstalled and properly secured, the area shall be inspected by the Supervisor and authorized BNI ES&H Representative for completeness, the barricade can be removed, and the area released for general use		
			· If covers must be altered or cut to accept piping, conduit, etc., the personnel performing the work must contact the responsible Supervisor and area Carpenter Supervisor for authorization prior to making any modifications.		
Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	General Requirements	Contact with Surrounding Structure, Equipment, or Commodities Fire Entrapment	· 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		

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		Limited Access & Egress Dropped Objects Electrical Shock Fall to Elevation Below	· 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		
			· 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*		

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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 · 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		

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Mobile Elevated Work Platforms (MEWPs) (Life Critical Activity)	Operating Near Energized Electrical Lines/Sources	Electrical Shock	· Aerial/scissor lifts shall be operated with a minimum safe approach distance near overhead exposed and energized power lines/sources in accordance with UPF-MANUAL-CM-001, *Uranium Processing Facility Construction Electrical Safety Manual*.		
			· Power lines/sources up to 25 kV, maintain 30-foot clearance		
			· Power lines/sources over 25 kV, maintain 50-foot clearance		
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		
			· 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		

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			· 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		

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			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 - 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	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		

THE NATION'S URANIUM PROCESSING FACILITY

UPF JOB HAZARD ANALYSIS

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JHA NO.:	**JHA-00761**		**REV:**	**3**	**ISSUE DATE:** **05/08/2025**
JHA TITLE:	**Installation of HVAC Duct, Supports and Associated Hardware**		**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:** **N/A**
Activity	**Sub-Activity**	**Hazard**	**Control**		
Orbital Sanding on Coated Metals	General Requirements	Ingestion Inhalation of Particulates	· Employ good personal hygiene techniques such as washing your hands before drinking, eating, or smoking		
			· Use an orbital sander with vacuum attachment with HEPA filtration OR when ventilation is not feasible, at a minimum a half-face Air Purifying Respirator (APF 10) with a HEPA/P 100 filter is required		
			· If local exhaust ventilation requirement cannot be met, install danger barricade tape with completed danger signs or tags around the coatings removal activity to adequately protect adjacent personnel		
Welding, Cutting, and Brazing	Welding of supports and HVAC components	Inhalation of Coating Fume Burns Flying Particles Arc Flash Shock Fire (Hot Work) Ingestion	Review the applicable work activities and implement the associated work controls listed in **JHA-00719,** *Fire Prevention, Protection, Hot Work and Welding*.		
Removal of Fireproofing	Cementitious Fireproofing (via non-powered tools)	Environmental Waste Inhalation	· Collect removed fireproofing chips, dust or filings by appropriate means (i.e., vacuum, etc.). Place debris in clear bags and seal with zip tie, duct tape, or knots and transport to the appropriate Special Waste Staging Area (for silica containing waste)		
			o Wet the cementitious fireproofing with water to reduce the generation of dust		
Removal of Fireproofing	Intumescent Fireproofing (via powered tools)	Environmental Waste Inhalation	· Collect removed fireproofing chips, dust or filings by appropriate means (i.e., vacuum, etc.). Place debris in clear bags and seal with zip tie, duct tape, or knots and transport to the appropriate Waste Staging Area		

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			· Where intumescent fireproofing is being removed for the purposes of planned welding, all intumescent fireproof coatings shall be stripped back a distance of four (4) inches from the area of heat application. The area of heat application means the surface area that the flame or arc contacts and any adjacent surface whose surface temperature may be appreciably raised by heat transfer. This also includes the backside of the weld joint when it's accessible.		
			· A minimum of a half-face Air Purifying Respirator (APF 10) with a HEPA/P 100 filter is required		
			· P100 Particulate filters need to be replaced when:		
			o The user has difficulty breathing comfortably or notices an increase of breathing resistance resulting from particle buildup		
			o The filter becomes visibly dirty		
			o The filter is physically damaged		
			· Or at a minimum of every 30 days inclusive of the above requirements.		
Vibration Producing Equipment and Activities	General Requirements	Hand/Arm Vibration	· Do not exceed the trigger-time limits listed in ML-SH-801768-A008, *Power Tools Hand-Arm Vibration Levels*. Note that these limits are cumulative over the course of a work shift. Contact IH if you are using several different power tools continuously within the work shift		
			· Take breaks from the source of the vibration every hour – perform a different task or rotate with a co-worker		
			· Check tools before using them to Ensure they have been properly maintained and repaired to avoid increased vibration caused by faults or general wear		
			· Avoid over-gripping or forcing a tool or work-piece more than is necessary		
			· Encourage good blood circulation by:		
			o Keeping warm and dry by dressing appropriately		
			· Massaging and exercising the fingers during work breaks.		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
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		
			· 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		
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		
			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.		

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Activity	**Sub-Activity**	**Hazard**	**Control**		
			· **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.		
			· **Combined exposure to several risk factors**. May place workers at a higher risk for MSDs than does exposure to any one risk factor.		
Hoisting and Rigging Work Operations (Life Critical Activity)	Wall Penetration installation	Dropped object/ Rigging	- **Use of the Wall Installation Pre-Job Prompt List** to perform pre-job review off the task with supervision and crew before work can begin. - **Supervisor Wall Penetration Installation Training** required for all supervision on-site performing this task. Step-by-step process reviewed by management, supervision, and crew before wall penetration work, with documentation. - **100% tethering of all wall penetration** steel being installed, before it leaves the ground, until it is		

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			permanently secured in location and complete. - **Review by supervision** daily before and after work begins to verify housekeeping/dropped - **Object removal** from areas where work at heights is being performed (scaffold decks, mezzanines) - **Follow sequence of work** as required by Standardized Work Instruction Steps for Wall Penetration Duct Installation checklist		

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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:	Jonathan Nichols Printed Name/Signature			05/08/2025 Date	
APPROVAL:					
ES&H:	Anton Panev Printed Name/Signature			05/08/25 Date	
SITE MANAGER: (DOA-CM-801768-A214)	Brian Tevis Printed Name/Signature			05/08/25 Date	