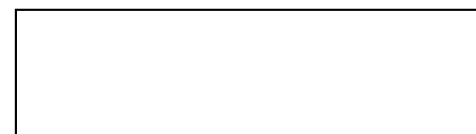




UPF JOB HAZARD ANALYSIS

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JHA NO.:		JHA-00766	REV:	1	ISSUE DATE:	5-6-25
JHA TITLE:		Warehouse Handling and Inspection of Aerogel Materials	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	Various (K-31, 1063E, 600E, Main Site)
Activity	Sub-Activity	Hazard	Control			
Manual Material Handling	Pallet Jack Use	Muscle Strain/Sprain Ergonomics Pinch Points Crushed By Struck By Caught Between	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 and for guidance on how to conduct a risk assessment on manual material handling, refer to OT-SH-801768-A128, UPF Ergonomics Lifting Guidelines 			
Hazardous Material Use	Use and Disposal of Hazardous Materials	Contact with Chemicals (adsorption, inhalation, ingestion,) Improper Disposal of Hazardous Materials	<ul style="list-style-type: none"> 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, <i>Construction Waste Management Plan for the Uranium Processing Facility</i> 			





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Activity	Sub-Activity	Hazard	Control			
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, <i>UPF Filtering Facepiece Approval/Issue for Voluntary Use</i>			
Field Level Hazard Assessment (FLHA)	Field Level Hazard Assessment Process	Unidentified and Unmitigated Hazards	<ul style="list-style-type: none"> 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	<p>Prior to beginning work activities each day or after an extended break or interruption (e.g., shift change, weekend), perform the following:</p> <ul style="list-style-type: none"> 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 <p>Using UCN-23552, perform the following:</p> <ul style="list-style-type: none"> Conduct a FLHA briefing with the work crew and support disciplines Resolve any issues/concerns with the work crew List and discuss the scope of work, anticipated hazards, and controls/mitigation measures for the work to be performed Ensure personnel document participation in the "Employee" section of UCN-23552 Conduct appropriate FLHA briefings when any of the following conditions exist: <ul style="list-style-type: none"> 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. 			

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JHA TITLE:		Warehouse Handling and Inspection of Aerogel Materials	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	Various (K-31, 1063E, 600E, Main Site)
Activity	Sub-Activity	Hazard	Control			
Ergonomic Hazard Activities	Various Activities	Musculoskeletal Disorder Injury	<p>Contact ES&H/IH (Radio: Channel 1) to evaluate your work activity if any of the following risk factors are encountered.</p> <p><i>Risk Factors</i></p> <p>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:</p> <ul style="list-style-type: none"> · 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. · Combined exposure to several risk factors. May place workers at a higher risk for MSDs than does exposure to any one risk factor. 			

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JHA TITLE:		Warehouse Handling and Inspection of Aerogel Materials	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	Various (K-31, 1063E, 600E, Main Site)
Activity	Sub-Activity	Hazard	Control			
Warehouse Handling and QC Inspection of Aerogel Materials	Cryogel & Pyrogel pre-cut materials and pieces	Exposure (Skin, Inhalation) to Hazardous Chemicals	<p>General Handling Instructions: Aerogel blankets and materials may generate dust when handled. Avoid handling the material in a manner that would generate excessive dust (i.e., do not throw material or handle roughly). Avoid dust contact with eyes, skin and clothing and avoid breathing dust.</p> <p>QC inspections: When feasible, inspections should be performed without removing the materials from the clear packaging. When this is not feasible, carefully unpackage the material and withdraw only the required quantity to complete the inspection.</p> <p>Warehouse and Teamster personnel: Carefully withdrawal the material that needs to be shipped to site and repackage it in a similar manner to the original packaging (i.e., closed plastic bag or cardboard box).</p> <p>Avoid generating visible dust during the execution of these activities. Contact IH for guidance if excessive dust (i.e., dust plume large enough to migrate in the breathing zone of personnel) is generated when handling this product.</p>			
	Handling of pipe covers or blankets require different controls see below	Eye, Skin and Respiratory Irritation	<p>Respiratory Protection: When aerogel materials are handled in accordance with the general handling instructions above, respiratory protection is not required. Voluntary use of filtering facepiece masks (i.e., dust masks) is available for personnel who choose to participate in this program.</p> <p>Skin Protection: Use impervious gloves when handling the product. When exposure to arms and body is anticipated, disposable coveralls should be used to keep dust away from work clothing.</p> <p>Eye Protection: Project approved safety glasses. When work is being performed overhead, use spoggles or goggles and face shield.</p> <p>General Hygiene: Wash hands with soap and water after handling.</p>			

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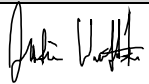
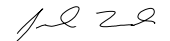
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JHA TITLE:		Warehouse Handling and Inspection of Aerogel Materials	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	Various (K-31, 1063E, 600E, Main Site)
Activity	Sub-Activity	Hazard	Control			
	Handling of Cryogel & Pyrogel pipe covers or blankets	Exposure (Skin, eye, Inhalation) to Hazardous Chemicals	<p>When Cryogel & Pyrogel pipe covers must be handled (i.e., completely removed from the box for the purpose of repacking or redistributing) the following controls are required:</p> <p>NOTE: this excludes QC activities where the inspection is performed without removing the material from the box.</p> <p>Respiratory Protection: 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:</p> <ul style="list-style-type: none"> • The user has difficulty breathing comfortably or notices an increase of breathing resistance resulting from particle buildup • The filter becomes visibly dirty • The filter is physically damaged • Or at a minimum of every 30 days inclusive of the above requirements. <p>Skin Protection: Use impervious gloves when handling the product. When exposure to arms and body is anticipated, disposable coveralls should be used to keep dust away from work clothing.</p> <p>Eye Protection: Project approved safety glasses. When work is being performed overhead, use spoggles or goggles and face shield.</p> <p>General Hygiene: Wash hands with soap and water after handling.</p> <p>Barricades: Establish red (danger) barricades with signs or tags communicating the respiratory protection requirements. Barricades must be established to encompass the entire activity where fugitive dust is not migrating outside of the barricaded area.</p> <p>Housekeeping: Clean-up the area utilizing vacuum cleaning equipment. Do not dry sweep the area.</p>			



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Ensure a new corresponding CFN-1251, <i>UPF Construction Attendance Sheet</i> , is signed and inserted in the CWP to document JHA briefing.					
PREPARER:	Nicholas Prewitt	 Printed Name/Signature		05/07/25 Date	
APPROVAL:					
ES&H:	Justin Weibert	 Printed Name/Signature		05/07/25 Date	
SITE MANAGER: (DOA-CM-801768-A214)	Justin Landis	 Printed Name/Signature		05/07/25 Date	