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<b>Job Hazard Analysis</b>		<b>JHA # 9</b>
<b>Job/Task Title: Installation of FRP Panels</b>		
<b>Safe Job Procedure:</b>		<b>Revised 1/2024</b>
<p>This JHA is for the safe and successful installation of FRP panels on walls and ceilings. Special emphasis is placed on work being done in a well-ventilated area, strains, and cuts.</p>		
<p><b>Required PPE: Hard Hat, Safety Glasses, Hi-Vis Vest, Cut 4 Gloves, and Work Boots</b></p>		
<p><b>Review JHA's 23,24,26,28,30,31: Power Tools and Equipment, MEWP and Aerial Lift, Material Handling, Scaffolding, Covering/Cleanup, LOTO</b></p>		
<b>Step #1 Work Area Inspection</b>		
<b>Steps to Complete Job</b>	<b>Hazards</b>	<b>Preventive Measures</b>
<p>Survey the work area for hazards.</p>	<p>Workers can be cut on sharp materials, sharp edges, or equipment. Possible trips, falls, and being struck by loose debris or unsecure materials.</p>	1) Hard Hat, Safety Glasses, Hi-Vis vest, Cut-4 Gloves, and Work Boots.
		2) Identify, eliminate, or mark all trip hazards such as, open holes, slippery conditions, rolling stock, or changes in elevations.
		3) Correct or note any changes in work area since last leaving it.
		4) Pickup loose materials and remove debris from work area.
<p>Identify any stored energies in the work area that could be released due to the work being performed, or by being damaged.</p>	<p>Workers could release unknown or unsuspected energy due to damage, removal of system components, or exposure of system components.</p>	1) Relocate stored energy components or system from work area.
		2) Deenergize and install LOTO (JHA #31) procedures to stored energy source.
		3) Install bulletproofing or mitigation to protect stored energy source.
		4) Barricade and tag area around stored energy source.



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Walk area to ensure that there is adequate lighting and electrical power supply.	Lack of lighting can impair the ability to see, causing trips, falls, cuts, etc. Lack of sufficient electrical power can cause circuit overloads and excessive number of electrical cords in the area.	1) Have temporary task lighting provided before work begins.
		2) Have temporary power provided before work begins.
		3) Minimize electrical cords in area. Verify the cords in use are rated for their expected use.
		4) All cords and lighting to be GFCI protected.
		5) All cords to be tested and marked according to current Assured Grounding protocol.
Coordinate work in the area with other trades.	Possible confusion and conflict due to multiple trades working in a limited area.	1) Communicate with other trades to avoid creating a hazardous situation by trade stacking. <b>Coordination.</b>
<b>Step #2 Work Area Set Up</b>		
<b>Steps to Complete Job</b>	<b>Hazards</b>	<b>Preventive Measures</b>
Setting up work area.	Worker has the potential to be exposed to trips, strains, and sprains.	1) Stretch and flex before beginning of shift and after lunch. Stretch throughout the shift when needed to reduce or eliminate muscle strains.
		2) Set up work area in a well-ventilated space.
		3) Set up a cut table using sawhorses and plywood to minimize bending.
		4) Ensure there is adequate task lighting to perform the work.
		5) Utilize cordless tools when feasible.
<b>Step #3 Installation of FRP</b>		
<b>Steps to Complete Job</b>	<b>Hazards</b>	<b>Preventive Measures</b>
Cutting of FRP for installation.	Workers could be exposed to cuts, dust inhalation, noise, and strains.	1) Workers must be familiar with the tools and understand the hazards associated with them before using double cuts or circular saws.
		2) When making plunge cuts for outlets, ensure both hands are on the saw handles and away from the point of operation.
		3) Wearing a N95 dust mask is recommended.
		4) Have available a vacuum to control dust and debris.
		5) Hearing protection is required when noise exceeds 85db.
Application of adhesives to install FRP.	Worker could be exposed to hazardous fumes, strains, and cuts.	1) Understand the SDS label for the products that will be used and the hazards they present.
		2) Use of water-based adhesive is highly recommended.



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		<p>3) Half face respirator is required when working with adhesives that produce hazardous fumes. Workers will need to be fit tested prior to using a half face respirator.</p>
		<p>4) When working with adhesives that contain Volatile Organic Compounds (VOC's), establish that no ignition source is present, and the area has adequate ventilation using fans and window openings.</p>
		<p>5) Keep the area clean and organized. Keep a trash buggy close so you can immediately dispose of debris.</p>
		<p>6) All benches MUST have leg locks installed. Benches will be initially inspected by foreman before using on the jobsite, then will be visually inspected daily prior to use by a competent person. The bench top should be clear of debris, and the path leading to the bench and area around the bench must be clear of debris.</p>