

Job Hazard Analysis			JHA # 13		
Job/Task Title: Spray Applied Fireproofing/ Patching					
Safe Job Procedure: Revised 1/2024					
	nd successful application of Sp sitioning tarps, proper scaffol		• •		
Required PPE: H	ard Hat, Safety Glasses, Hear Suit, Work Boots, N95 Re	_			
Handling, Scaffoldir	26,28,29,30,31: Powered Too ng, Industrial/ Rough Terrain I				
Step #1 Work Area Inspec		T -			
Steps to Complete Job	Hazards		entive Measures		
Survey and set up the work area.	Workers can be cut on sharp materials, sharp edges, or equipment. Possible trips, falls, and being struck by loose debris or unsecure materials.	N95 Respirator (whi and application), an 2) Identify, eliminate	Glasses, Hi-Vis, Cut-4 Gloves, ile mixing), Tyvek suit (mixing ad Work Boots. e, or mark all trip hazards slippery conditions, rolling		
		stock, or changes in	elevations.		
		3) Correct or note a last leaving it.	ny changes in work area since		
		4) Pickup loose mate work area.	erials and remove debris fron		
Identify any stored energies in the work area that could be released due to the work being performed, or by being damaged.	Workers could release unknown or unsuspected energy due to damage, removal of system components, or exposure of system components.	1) Relocate stored e from work area.	energy components or system		
		2) Deenergize and in procedures to store	nstall LOTO (JHA #31) d energy source.		
		3) Install bulletproo stored energy source	fing or mitigation to protect		
		4) Barricade and tag source.	g area around stored energy		



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.	Communicate with other trades to avoid creating a hazardous situation by trade stacking. Coordination
Step #2 Setting up Mixing,	/ Pump Area	
Steps to Complete Job	Hazards	Preventive Measures
Setting up material receiving area.	Worker will be exposed to strains, sprains, fall hazards, and trip hazards.	1) Stretch and flex before beginning of shift and after lunch. Stretch throughout the shift when needed to reduce or eliminate muscle strains. 2) Organize material receiving area to accommodate incoming material transports. 3) Barricade and secure material laydown. Secure stored materials against possible weather damage.
Setting up mixer/ Pump.	Worker will be exposed to pinch points, trips, and mixing/ pumping equipment.	 Only trained and competent personnel are to setup, inspect and operate mixers and pumps. Inspect all pieces of equipment and fittings for defects or worn parts. Setup mixer and material to minimize lifting and twisting movements. Route hoses and airline to minimize trip hazards, also protect hose from abrading against adjacent surfaces. Secure bull whip to frame of pump. Tape air and alum hose every 3 feet to the pump hose.



		7) Setup equipment in a well-ventilated area to	
		help disperse dust and exhaust fumes.	
		8) Setup mixing and pumping operation in an	
		area that has solid footing and can be continually	
		cleaned of spillage.	
		9) The area around the mixing and pumping	
		operation must be protected against excess	
		material spreading out.	
		10) Restrict access to mixing and pumping area to	
		FSS employees only.	
		11) Operator to wear hearing protection and	
		respirator. Respirator users must be fit tested by	
		safety prior to using.	
Step #3 Mixing			
Steps to Complete Job	Hazards	Preventive Measures	
Mixing fireproofing	Worker will be exposed to	1) Stretch and flex before beginning of shift and	
materials.	possible respiratory	after lunch. Stretch throughout the shift when	
	hazards, strains, sprains,	needed to reduce or eliminate muscle strains.	
	electrical hazards, and	2) Worker will wear N95 or half-face respirator	
	pinch points.	while mixing and handling materials. Half-face	
		respirator users must be fit tested by safety prior	
		to use.	
		3) Set up mixing area to minimize bending,	
		twisting, lifting, and moving of materials.	
		4) Utilize two handles on drill motor at all times	
		while operating.	
		5) Verify that electrical power is GFCI protected	
		and an approved power source.	
Step #4 Fireproofing Tarp	S	,	
Steps to Complete Job	Hazards	Preventive Measures	
Installing and	Worker will be exposed to	1) All installations must be overseen by a	
repositioning	slips, trips, and falls.	competent person.	
Fireproofing Tarps.		2) Competent person must inspect the area for	
		any types of hazards and mitigate any hazard	
		prior to any work.	
		3) Before the tarp is installed or moved, the	
		competent person will instruct the crew on the	
		procedures needed to execute the move.	
		4) The bottom of the tarp must have tag lines or	
		be secured before the tarp is raised into position.	
		5) No tarps are to be raised or repositioned when	
		winds are at, or exceeding 15 mph sustained or	
		gust over 20 mph.	
		6) Have adequate manpower to facilitate the	
		movement of the tarps smoothly.	
1	I	movement of the tarps smoothly.	



		 7) When the tarp is secured into position, a minimum of every other grommet is to be secured. 8) A 10-foot buffer zone around tarps will be kept clear of material, scaffold, etc. This space is for movement of tarps in wind. 9) Tarps are to be inspected before and at the end of each shift for being properly secured. 10) Competent person is to assess current and future weather conditions, then secure tarps accordingly. 11) When possible, tarps should be lowered and secured for upcoming storms or long weekends. 12) Maintain awareness of slippery floor conditions due to water or overspray.
Step #5 Fireproofing Appl	I	
Steps to Complete Job	Hazards	Preventive Measures
Spray applying fireproofing.	Worker will be exposed to possible falls, trips, slips, and high-pressure hoses.	 Inspect work area before each shift and break for obstructions, penetrations, holes, and leading-edge conditions. Ensure trip hazards are clearly marked. Keep feet on scaffold deck at all times. Avoid overreaching. All fireproofing scaffolding will have a solid level deck and guardrails installed. Plan path of scaffolding to minimize changing direction of movement. Prior to movement of scaffold, workers on scaffold are to be warned of movement, and to take a knee. Wheels must be locked when scaffold is not being moved. Scaffolding must be kept clear of overspray. Spotter is to keep watch and communicate to sprayer of any hazards that will affect him while he is spraying. Pump operator and sprayer must be in clear and constant contact while spraying operation is in progress. When working overhead, a face shield, flipdown visor, foam wrapped safety glasses, or spoggles are required.



		prevent the fitting from kicking up if any pressure			
		remains.			
Step #6 Hand Patching Fi	Step #6 Hand Patching Fireproofing				
Steps to Complete Job	Hazards	Preventive Measures			
Hand applying	Worker will be exposed to	1) Competent person to inspect area for possible			
fireproofing material to	possible flying debris, falls,	trip and fall hazards. Inspect overhead for			
steel beams, angles, or	strains, cuts, and tight	obstructions. Remove or mark hazards			
columns.	working conditions with	accordingly.			
	restricted movement.	2) Plan to begin patching work before other			
		trades limit access.			
		3) Mixing must be done by a competent person			
		to ensure application meets the manufacturers'			
		recommendations.			
		4) Keep work area clear of debris and excessive			
		materials.			
		5) Set up work to minimize overreaching,			
		twisting, and bending over.			
		6) Use MEWP or mobile scaffold to access			
		overhead work. Ladders should be a last resort			
		and only after approved by safety.			
		7) When working overhead, a face shield, flip-			
		down visor, foam wrapped safety glasses, or			
		spoggles are required.			