

JHA NO.:	JHA-0	0721	REV:	0	ISSUE DATE:	11/22/2023
JHA TITLE:	Hand a Tools	and Power	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 or Equipment Laceration or Grinding	Tools used on the UPF construct changed without the explicit appr Personnel shall Ensure hand tool	oval of the UPF	Site Manager and ES&H	
		Wheel Failure Fire	Inspecting tools before each	h use for dama	age or defects such as:	
		Electric Shock	o Cracked handles	on use for dame	age of defects, such as.	
		Inhalation of Carbon Monoxide, Nitrogen Dioxide, and or Other Combustion Gases, Chemical Asphyxiation	o Damaged cutting edges			
		Struck-by	o Splitting or cracked parts			
		Abrasion	o Broken adjusting components			
			o Insulation damage (e.g., flatte	ened, cuts, abra	asions, burnt or discolored	
			conductors, melted cord caps, co	rd deformation)	
			· Verifying that the work pac	kage identifies	non-sparking tools when th	ne work to be
			performed may require them			
			· Testing daily ground fault of	circuit interrupte	er (GFCI) receptacles prior	to use, including
			portable units			

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			 Verifying tools and their components (e.g., guards, retainers, and other safety mechanisms) are not altered and that they are operated in accordance with the manufacturers' specifications 					
			· Ensuring guards are in place	ce for tools, such as	saws and grinders, w	vhile they are in operation		
			· Ensuring that tools are not	abused, are kept in	good operating condi	ition, and are		
			only used for their intended purpo	ses				
			Double insulating or grounding all electrically powered tools. If there is evidence that the ground pin has been damaged or removed, then immediately take the tool out of service, tag it, and return it to a controlled area for repair					
			· Protecting temporary const	ruction outlets used	for 120-volt tools with	h GFCI devices		
			· Inspecting woodworking to	ols for the following:				
			o Fixed power-driven tools have position	e disconnect switche	es that can be either le	ocked or tagged in the off		
			o Circular saws that are over 20 minute have clearly marked opera		and/or operated over	10,000 peripheral feet per		
			o Installed automatic feed device	es are covered and	or guarded/			
			Ensuring that the manufact other fittings used for conducting			pipes, valves, filters, and		
			 Ensuring that the pressure of compressed air used for cleaning purposes is less than 30 pounds per square inch. Compressed air shall not be used for cleaning or blowing dust from any part of the boo or clothing 					
			Securing airline hoses for h preclude uncontrolled whipping in			(i.e., with whip restraints) to eparated while under pressure		



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Activity	Sub-Activity	Hazard	Control		_	
			Protecting air-supplying prevent whipping in the event of			with an excess flow valve to
			Installing air receivers ar access and safe operation	d associated dra	ains, traps, gauges, and sa	fety valves to promote ease of
			· Having personnel Ensure	e portable grinde	rs are properly configured	for either a
			left-handed or right-handed per	son's use, as ap	plicable	
			Providing portable grinders with a hood-type guard with side enclosures that cover the spind at least 50 percent of the wheel. All wheels shall be inspected regularly for signs of fracture			
			· Bench grinders shall be	equipped with de	eflector shields and side co	ver guards that have:
			o A maximum angular exposi except when work requires con			
			o An angular exposure not ex	ceeding 125 deg	grees	
			o An exposure not beginning	more than 65 de	egrees above the horizonta	l plane of the spindle
			o Have tool rests with a maxi	mum clearance	of 1/8-inch between the wh	eel and
			grinding stone Hand-held grinders shall be equipped with a constant pressure switch.			
			· Supervisors shall Ensure	frequent light d	ressings on bench grinders	are performed.
			· When turning on a bench up to full speed.	grinder, the use	ers shall stand off to one si	de until the wheel has come
			· Personnel shall inspect a	all wheels before	use for signs of fracture.	



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			Prior to operating a bench of with an object, which should yield grinder out of service and replace	a metallic tone or '		st" (i.e., gently tap the wheel ad" sound, then take the	
			· Electric bench grinders sha electrical power outage	ll be equipped with	an anti-restart feature	to prevent restart after an	
			 Shop machines (e.g., drill presses, fixed saws, or bench grinders) shall be effectively fastened secured in place to prevent movement during operation and use. Tool safety retainers shall be installed on portable tools when required by the tool manufactur (e.g., nail gun retainer). 				
			 Fuel-powered tools shall no approved safety cans. These cans 			ll be dispensed only from	
			Cutting tools approved for g self/automatic retracting blade) or recessed/protected blades).				
			Prior to using cutting tools r Hazard Analysis (JHA) identifies t approval is received from the ES& Field Level Hazard Assessment (I Level Hazard Assessment/ Job Ha	he hazards and co kH Manager or des FLHA) card for the	ntrols associated with ignee. The approval sl specific task. Refer to	nall be documented on the Y17-95-64-823, UPF Field	
Drill Presses	Drill Presses	Crushing	· Always be sure the machin	e support is secure	ly anchored to the floo	or or the work bench	
	(Floor, Bench, and Magnetic)	Striking	Do not overreach. Keep pro	per footing and ba	lance at all times		
	Manufactures Recommendations	Entanglement	Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting				



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Activity	Sub-Activity	Hazard	Control					
		Hot Objects and Components	· Keep guards in place and in removed	•	·	•		
		Flying Particles	 Never leave the machine running while unattended. Machine shall be shut off whenever it is roperation All work shall be secured using either clamps or a vise to the drill press table. It is unsafe to uryour hands to hold any workpiece being drilled 					
			 Never brush away any chips while the machine is in operation. All clean up should be done we the machine is stopped Keep hands in sight and clear of all moving parts and cutting surfaces. Do not put hands or find around, on, or below any rotating cutting tools 					
			· Reference ML-SH-80176-A	.002, UPF Eye and I	Face Protection List			
			Ensure drill press is ground and ordinances	ed in accordance w	ith the National Electri	cal Code and local codes		
Threading	Threading	Crushing,	· Keep handles and grasping	surfaces dry, clean	and free from oil and	grease		
Machines	Machines (includes Hand-	Striking, Entanglement,	Secure machine to bench or	r stand. Support lon	g heavy pipe with pipe	e supports		
	Held)	Hot Objects	Do not overreach. Keep proper footing and balance at all times					
	Manufacturer's Recommendations	and Components, Flying	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					
		Particles	· While operating the machine, stand on the side where the operator control switch is located					
			 Keep hands away from rotal screwing on fittings. Allow the matchucks 	efore wiping pipe threads or puching the pipe or machine				
			Do not use this machine if the foot switch is broken or missing					
			· One person must control th	e work process, ma	chine operation and fo	ot switch		



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Activity	Sub-Activity	Hazard	Control					
			· Never reach into the m	achine front chuck	or rear centering head			
			Never leave the maching operation	ne running while u	nattended. Machine shall b	e shut off whenever it is not in		
			· 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)					
			· When threading 1" or larger pipe, use support device to resist threading forces. Use an appropriate support device per manual instructions. Pipe 3/4" and smaller nominal dimension can threaded without the use of support device. (Hand-Held 700 Power Drive)					
Horizontal Bandsaw		Laceration	Keep guards in place a removed.	nd in proper work	ing order. Do not operate tl	ne machine with guards		
Bandsaw	Manufacturer's Recommendations		Do not overreach. Keep proper footing and balance at all times					
	T Cooperation and the Cooperation of the Cooperatio		 Keep hands in sight and clear of all moving parts and cutting surfaces. Do not put hands or finge around, on, or below any rotating cutting tools 					
			· Never leave adjusting keys, wrenches, or any other tools on machine. Always verify removal before starting					
			· All work shall be secured using either clamps or a vise prior to starting cutting activity					
			· When changing a blade supply	e or doing any oth	er maintenance or repair, c	lisconnect the main power		
Portable Band Saws	Portable Band Saws	Laceration	All portions of band saw blade between the bottom of the gu					
			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 be	ng cut is secured	via approved methods (i.e.	, bench vise, c-clamp).		



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			NOTE: Never hold the material t	hat 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 t source and/ or battery pack, picking up or carrying the tool. 					
			· Remove any adjusting key	or wrench before tur	rning the power tool o	n.		
			· Do not overreach. Keep pro	per footing and bala	ance at all times.			
			Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from movin parts.					
			Do not force the power tool.	Use the correct po	wer tool for your appli	cation.		
Portable Circular	Portable Circular Saws	Laceration	Portable, power-driven circuplate or shoe	ılar saws shall be e	quipped with guards a	bove and below the base		
Saws			The lower guard will cover to allow proper retraction and confidence.		of the teeth, except f	or the minimum arc required		
			The lower guard will automatically return to the covering position when the blade is the work					
Radial Saws	Radial Saws	Laceration	· Radial saws shall be equipped saw blade, including the end of the		uard that completely ε	encloses the upper half of the		
			The upper hood must be constructed in such a manner and of such material to protect the operator from flying debris (e.g., splinters, broken saw teeth) and deflect sawdust away from the operator					
			The operator shall Ensure the sides of the lower, exposed portion of the radial saw blade are guarded and that the saw blade automatically adjusts to the thickness of the material and remains in contact with the material being cut					
			The operator shall Ensure radogs	adial saws used for	ripping are equipped	with non-kickback fingers or		



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Swing/Sliding Cut-Off Saws	Swing/Sliding Cut- Off Saws	Laceration	Swing or sliding cut-off shalf of the saw	saws shall be equ	lipped with a hood that con	npletely encloses the upper	
			· Limit stops shall be set i front or back edge of the table	n place to preven	t swing or sliding cut-off sa	ws from extending beyond the	
			· Each swing or sliding cu automatically to the back of the		provided with a device that ased at any point of its trav		
			When performing inverted sawing with the sliding cut-off saws, operators we place to cover the part of the saw that protrudes above the top of the table or many				
Table Saws	Table Saws	Laceration	Circular table saws shal mounted so that the hood auto contact with the material being	matically adjusts		of the saw above the table and e material and remains in	
			· Circular table saws shal behind the largest blade moun dado work, or rabbeting (i.e., jo	ted in the saw. Th		spaced no more than 1/2-inch y when grooving, performing	
			· Ensure circular table saws used for ripping are equipped with non-kickback fingers or dogs				
			· Feeder attachments shall have the feed rolls or other moving parts covered/guarde operator from hazardous points				
Powder- Actuated Tools	Powder-Actuated Tool Use	Improper Use of Tool or Equipment	· Only those workers who operate a powder-actuated too		aining for the particular too	l being used are allowed to	
		Line of Fire	Test powder-actuated tools each day before loading to Ensure safety devices are in proper working condition and use the manufacturer's recommended procedure to perform the required tests				
		Struck-by, Flying Particles	When powder-actuated tools are not in proper working order or when such tools develop a defect during use, tag them immediately "out-of-service" and remove them from the worksite. Faulty tools shall not return to the work area until properly repaired				



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		Fire	· DO NOT load powder-ad	ctuated tools until	ust prior to the intended f	iring time			
			DO NOT point loaded or	empty tools at an	y workers, and keep hand	ds clear of the open barrel end			
			· DO NOT leave loaded to	ols unattended					
				· Avoid driving fasteners into very hard or brittle materials, including cast iron, glazed tile, surfact hardened steel, glass block, live rock, face brick, or hollow tile					
			Avoid driving fasteners into materials that are easily penetrated unless such materials are backed by a substance capable of preventing the pin or fastener from passing completely through and creating flying missile hazard on the other side						
			· DO NOT drive fasteners	into a spalled are	a caused by an unsatisfac	ctory fastening			
			· DO NOT use powder-ac	tuated tools in an	explosive or flammable at	mosphere			
			Use powder-actuated to manufacturer	ols with the correc	t shield, guard, or attachn	nent recommended by the			
			Establish a danger barric accordance with UPF-CP-214	cade and signage	in areas where powder-ad	ctuated tools are in use in			
			Store powder-actuated to when not in use	ools and fasteners	in accordance with manu	ufacturers' recommendations			
			DO NOT dispose unsper Representative, and/or ES&H	nt rounds in dome	stic trash. Contact Superi	ntendent, Site Technical			
			· Dispose misfired rounds	in accordance wit	h the manufacturers' instr	ructions			
			· Ensure the tool operator wears safety glasses and a face shield during operation						
			 Powder-actuated tools and powder charges shall be controlled so as to prevent unauthorized possession at any time while not in use (i.e., tools are stored in locked containers and powder charge a locked flammable cabinet). The operators shall not carry cartridges in their pockets 						



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			Only powder-actuated cha manufacturer for use in a specific	rges, studs, pins, tool shall be use	or fasteners designed a d. Cross-use of accesso	nd recommended by the ries with tool is prohibited	
			In the event of a misfire, ho less than one full minute. If it is u container and return it to the tool Use."	ncertain that the t	ool is defective, then unl		
			· When making a thorough and complete study of the job, Ensure the type of material to be worked on is included, as well as its thickness and general condition				
			· Ensure occupied areas bel	hind the firing loca	ation are cleared prior to	task start	
			Avoid the use of powder-active penetrated by the fastening stud	ctuated tools on n	naterials or surfaces that	t may be completely	
			DO NOT drive fasteners di inches from the edge or corner or UNLESS a special guard or fixtur	r into steel surface		rete that are closer than three rom the edge or corner	
			· Ensure the operator knows the stud is being driven (e.g., elec			ne surfaces or walls into which nel)	
			DO NOT carry a tool from	one job to anothe	r while it is loaded		
			· DO NOT fire the tool when	there is an obstru	uction in the barrel		
			· DO NOT fire a tool into a p	re-drilled hole			
			DO NOT test a powder-act	uated tool with th	e breech plug still in the	barrel	
			· DO NOT use a fastener wi	thout a cap or gui	de		
			· Avoid using a long-breech	plug charge in a	short-breech barrel		
Chainsaw	General Requirements	Flying Particles	· Reference ML-SH-801768	-A002, <i>UPF Eye</i> a	and Face Protection List		



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		Lacerations	In addition to standard required	PPE, cut resistant	logging chaps and toe caps	or metatarsal guards are		
			Never cut above shoulder height or overreach. Ensure material is secured to prevent inadvertent movement during cutting operations					
			Never drop start a chair	nsaw. Place saw o	n stable surface and pull sta	art		
Demo/Chop Saw	General Requirements	Flying Particles	· Reference ML-SH-801	768-A002, <i>UPF Ey</i>	e and Face Protection List			
		Struck by	· In addition to standard PPE, cut resistant logging chaps and toe caps or metatarsal guards are required					
		Lacerations	Never cut above shoul movement during cutting ope		each. Ensure material is sec	cured to prevent inadvertent		
		Fire (Hot Work)	Evaluate material for the contact the Permit Authorizin		uce sparks. If not in a Desi or a Hot Work Permit and fo			
Defeating Safety	Guards or Safety Protection Devices	Unsafe Conditions	Never Disable, bypass, modi from the Site Manager and E					
Devices (Life Critical			· Disconnect load indica	tors				
Activity)			· Remove Guards or ha	ndles from rotating	equipment or tools			
			· Fix or lock triggers and	power switches to	keep them in the "on" posit	ion		
			· 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 wit	hout deploying out	rigger pads when they are r	equired		



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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:		Anton R. Panev	A Printed Nam	Pwv e/Signature		11/22/2023
APPROVAL:						
ES&H:	: Kieran S. Kelly Printed Name/Signature				11/22/2023 	
SITE MANAGER: (COI-CM-801768-A087)		Matthew W. Schmid	Printed Nam	e/Signature		11/22/2023 Date