

My signature on the corresponding CFN-1251, UPF Construction Attendance Sheet, indicates that I have read the JHA and have received answers to any questions I had relative to the JHA. My signature further indicates my willingness to comply with the provisions and requirements of the JHA.

JHA NO.:	JHA-007	760		REV:	1	ISSUE DATE:	2-28-25
JHA TITLE:		tion of Sprinkler Pipe, ts and Associated Hard	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control			1	
General Site Activities	Remote/Lone- Worker	Delayed and Inadequate Response	communaddition	nication method is main al briefing may be requi	rained (e.g., phone red (e.g., FLHA ca	e). When accessing a solution of the street	countability and a reliable specific work area/activity worker is informed when -worker when return to
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	way cha Personn In O Crac O Dam O Split O Brok O Insul Conducto Vo performe Te portable	erifying tools and their o	it approval of the U cols are safe by per ach use for damage tts ttened, cuts, abrasi cord deformation) ckage identifies no	IPF Site Manager and forming the following: e or defects, such as: ions, burnt or discolored on-sparking tools when (GFCI) receptacles proguards, retainers, and	ed n the work to be ior to use, including other safety

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JHA TITLE:		ation of Sprinkler l		WORK PACKAGE N/A NUMBER:		SPECIFIC LOCATION:	N/A	
Activity	Sub-Activity	Hazard	Contro	l				
			· E	nsuring guards are in place for on	tools, such as s	aws and grinders	, while they are in	
			· Е	Ensuring that tools are not abus	ed, are kept in g	ood operating co	ndition, and are	
			only used for their intended purposes 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					
			· F	Protecting temporary construction	on outlets used for	or 120-volt tools v	vith GFCI devices	
			· Inspecting woodworking tools for the following:					
		o Fixed power-driven tools have disconnect switches that can be either locked or off position					r locked or tagged in the	
				cular saws that are over 20 inch ute have clearly marked operat		nd/or operated ov	er 10,000 peripheral feet	
			o Inst	alled automatic feed devices ar	e covered and/o	r guarded		
				nsuring that the manufacturer's er fittings used for conducting o			es, pipes, valves, filters,	
			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 a part of the body or clothing					
			 Securing airline hoses for hand tools and other equipment together (i.e., with whip restraints) to preclude uncontrolled whipping in the event that hose couplings become sepa while under pressure 					
				Protecting air-supplying hoses e prevent whipping in the event			er with an excess flow	



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Activity	Sub-Activity	Hazard	Contro	l ·		<u> </u>			
			Installing air receivers and associated drains, traps, gauges, and safety valves to ease of access and safe operation						
			Having personnel Ensure portable grinders are properly configured for either a left-handed or right-handed person's use, as applicable Providing portable grinders with a hood-type guard with side enclosures that cover the spindle and at least 50 percent of the wheel. All wheels shall be inspected regularly for sign fracture						
			· E	Bench grinders shall be	equipped with de	flector shields and side	cover guards that have		
			o A maximum angular exposure of the grinding wheel periphery and sides not modegrees, except when work requires contact with the wheel below the horizontal planspindle						
			o An	angular exposure not ex	ceeding 125 deg	grees			
			o An	exposure not beginning	more than 65 de	grees above the horizor	ntal plane of the spindle		
			o Hav	ve tool rests with a maxir	num clearance o	of 1/8-inch between the	wheel and		
			grinding	g stone					
			· F	land-held grinders shall	be equipped wit	h a constant pressure sv	witch.		
			. 5	Supervisors shall Ensure	frequent light di	ressings on bench grinde	ers are performed.		
			 When turning on a bench grinder, the users shall stand off to one side until the wheel come up to full speed. Personnel shall inspect all wheels before use for signs of fracture. 						
			wheel v	Prior to operating a benc with an object, which sho e grinder out of service a	uld yield a meta	llic tone or "ring"). If ther			



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Activity	Sub-Activity	Hazard	Control			1	
				lectric bench grinders sha rical power outage	all be equipped with a	ın anti-restart featı	ure to prevent restart after
				hop machines (e.g., drill բ l or secured in place to pi			
				ool safety retainers shall l cturer (e.g., nail gun retair	-	le tools when requ	uired by the tool
				uel-powered tools shall no proved safety cans. Thes			
		Cutting tools approved for general application are cutters with an integrated sa (i.e., self/automatic retracting blade) or safety design (i.e., scissors, shears, wire strip recessed/protected blades).					
			the Job tool(s) a docume		entifies the hazards a ed from the ES&H Ma azard Assessment (F	and controls associ anager or designe FLHA) card for the	ciated with the use of the ee. The approval shall be
Drill Presses	Drill Presses	Crushing	· Al	ways be sure the machin	e support is securely	anchored to the f	loor or the work bench
	(Floor, Bench, and	Striking	· Do	o not overreach. Keep pr	oper footing and bala	nce at all times	
	Manufactures H	Entanglement Hot Objects and Components	· No	ever leave chuck keys, w tarting	renches, or any other	r tools on machine	e. Always verify removal
		Flying Particles	· Ke		n proper working ord	er. Do not operate	the machine with guards
				ever leave the machine ro operation	unning while unattend	ded. Machine shal	I be shut off whenever it



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Activity	Sub-Activity	Hazard	Control	ĺ				
				ll work shall be secured Ir hands to hold any wor		a vise to the drill	press table. It is unsafe to	
				lever brush away any ch ne machine is stopped	ips while the machine	is in operation. All	clean up should be done	
				Geep hands in sight and around, on, or below an		s and cutting surfa	aces. Do not put hands or	
			· R	Reference ML-SH-80176	-A002, UPF Eye and F	ace Protection Lis	st	
				nsure drill press is grou and ordinances	nded in accordance wi	th the National Ele	ectrical Code and local	
Threading	Threading	Crushing, Striking,	· к	eep handles and graspi	ng surfaces dry, clean	and free from oil a	and grease	
Machines	Machines	Entanglement, Hot						
	(includes Hand- Held)	Objects and Components/Flying	ning Do not overreach. Keep proper footing and balance at all times					
	Manufacturer's Recommendations	Particles		Restrict access or barrica num of (3-4 feet) clearan			eyond machine to provide	
			· W located	Vhile operating the mach	nine, stand on the side	where the operator	or control switch is	
			threads	Geep hands away from ro or screwing on fittings. machine chucks			e before wiping pipe e stop before touching the	
			· D	o not use this machine	if the foot switch is brol	ken or missing		
			One person must control the work process, machine operation and fo					
			· N	lever reach into the mad	hine front chuck or rea	r centering head		
				lever leave the machine operation	running while unattend	ded. Machine shal	l be shut off whenever it	



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Activity	Sub-Activity	Hazard	Control					
				ways firmly hold the powe g forces, regardless of sup			head off the pipe to resist ver 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 be threaded without the use of support device. (Hand-Held 700 Power Drive)					
Portable Band Saws	Portable Band Saws	Laceration	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.						
			· A	ways keep both hands on	the tool handles.			
			· A	ways keep your hands ou	t of the line of the ba	nd saw blade.		
			· E	nsure the material being c	ut is secured via app	roved methods (i.	e., bench vise, c-clamp).	
			NOTE: I	Never hold the material t	hat is being cut!			
			· A	ways wait until the motor l	has reached full spec	ed before starting	a cut.	
				revent unintentional startin ource and/ or battery pack			ion before connecting to	
		Remove any adjusting key or wrench before turning the power tool on.						
			· D	o not overreach. Keep pro	per footing and balar	nce at all times.		
			· D	o not wear loose clothing oparts.	or jewelry. Keep your	r hair, clothing and	d gloves away from	
			· D	o not force the power tool.	Use the correct pow	er tool for your ap	oplication.	



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Activity	Sub-Activity	Hazard	Control			-			
Manual Material	Pallet Jack Use	Muscle Strain/Sprain		· Do not overload the machine. Be aware of dynamic loading! Sudden load movement may briefly create excess load causing product failure					
Handling		Ergonomics Pinch Points	· U	lse as intended only. Do	not use machine to	support personnel			
		Crushed By	· A	lways load the machine	evenly and central	ly			
		Struck By	· K	eep clear of fork and loa	d while raised				
		Caught Between	· 0	only use on flat, level surf	face able to withsta	and weight of machine	e and load		
			· N use	lever leave a loaded mad	chine unattended th	ne load must always l	pe lowered when not in		
			· In	nspect before every use	do not use if parts	are loose or damaged	i .		
Manual Material	Manual Material Handling	in and in a second		 Supervisors will be trained in the basics of manual material handling, hazards and basic controls, and conducting basic risk assessments for material handling work 					
Handling		Ergonomics Pinch Points		Vhere manual handling is ment as part of the FLHA					
			· Ir	nspect for shifted loads, s	stored energy, or lo	ose items prior to un	oading		
			· K	eep hands and arms cle	ar when stacking n	naterial			
			· R	temove/protect sharp edo	ges with "softeners	" prior to lifting			
			To understand safe lifting limits during manual material handling and for guidance to conduct a risk assessment on manual material handling, refer to OT-SH-801768-A12 Ergonomics Lifting Guidelines						
Hazardous Material Use	Hazardous Improper Storage of Hazardous Material Storage Materials Spill			lazardous materials mus t protects human health ted with the materials					
		Fire		"first in, first out" storage come a waste product	e strategy must be	used to help Ensure	material does not expire		



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Activity	Sub-Activity	Hazard	Control					
			requiren			ce with the completed UC eratures, to prevent produced to the complete the complete with the complete with the complete the complete with the complete the comple	N-23353 and SDS uct degradation and thus	
			 Storage areas must be kept organized so materials can be properly inspected, invent and segregated considering their compatibility 					
Hazardous Material Use	Labeling of Hazardous	Inadequate Hazard Communication		abeling of hazardous n g <i>Instructions</i>	naterials shall be	in accordance with Appe	endix B, <i>Container</i>	
	Materials		thereof t		yees with the sp	nd words, pictures, symb ecific information regardi		
				roject Personnel may t container for immedia		us materials from a bulk o eir shift only	container to a suitable	
				iate signage attached t		rage tanks) must have sigain the same information		
Hazardous Material Use	Use and Disposal of Hazardous	Contact with Chemicals		ontact IH or ES&H Rep specific chemical/produ		CN-23353 SDS Evaluatio orking with	n Form is not completed	
	Materials	(adsorption, inhalation, ingestion,		eview UCN-23353 and the work	I the Safety Data	Sheet (SDS) of the chen	nical/product prior to	
		Asphyxiation)	· F	ollow the assigned wor	k controls specif	ied in the SDS Evaluatior	n Form	
		Improper Disposal of Hazardous Materials		ompleted UCN-23353 for 2, <i>Construction Waste</i>				



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Activity	Sub-Activity	Hazard	Control	1		I		
Dropped Object Prevention	General Requirements	Dropped Objects	Review the applicable work activities and implement the associated work controls listed in JHA 00715 , <i>Dropped Object Prevention</i>				k controls listed in JHA-	
Personal Protective Equipment (PPE)	General Requirements	Hazards Associated with Construction Activities	Review the applicable work activities and implement the associated work controls listed in JHA-00712 , <i>Barricades</i> , <i>PPE</i> , <i>FLHA</i>					
Fire Prevention and Protection	Fire Occurrence	Fire In the event of a fire, personnel are primarily responsible for evacuating themselves and safely from the fire area. The discoverer of the fire shall perform or direct the following the immediate actions:						
			Step 1 – Yell "FIRE" to notify those in the immediate vicinity.					
			Step 2 – Notify the Y-12 Operations Center (OC) by:					
			o Acti	o Activating a fire alarm (pull box), if available				
				ing 911 from a Y-12 lar				
			o Calling Y-12 OC at (865) 574-7172 from a cell phone					
			o Con	tacting the OC via Cha	nnel 1 from a Pro	oject radio		
			o Con its locat	tacting the supervisor/s ion (to be forwarded to	superintendent au the Y-12 OC)	nd providing any informa	tion regarding the fire and	
	NOTE: Use the phonetic alphabet w location.					the OC to avoid confusion	on identifying the building	
			early-sta taken o	age fire using an availa nly if personnel believe	ble portable fire of it is within their of	sonnel may voluntarily at extinguisher. This volunta capability to safely exting e is no immediate danger	ary action should be uish or contain the fire, a	



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Activity	Sub-Activity	Hazard	Control					
Fire Prevention and Protection	Ignition Hazards	Fire		purposes in accordance Electrical Safety Manual				
				O NOT SMOKE unless , UPF Smoking/Tobacco		ng area in accorda	ance with UPFPOLICY-	
		LOCATE exhausts of internal combustion engine-powered equipment away from combustible materials						
Fire Prevention and Protection	Construction Material and Equipment Staging	Fire		/HEN equipment to be in E associated combustib				
	Staging		· To	o the extent possible, m	aterials used for tempo	orary construction	purposes inside of	
			buildings/structures shall be of the fire-resistive type					
				ombustible materials sta eed five days, unless au			nder construction shall	
				AINTAIN at least a 36-in r deflectors	nch clearance betweer	n the top level of the	ne stored material and the	
			· M materials	AINTAIN clearance aro	und lights and heating	units to prevent ig	nition of combustible	
			· D(O NOT STORE materia	l within 36 inches of a	fire door opening		
Fire Prevention and Protection	Waste Disposal	Fire REMOVE accumulations of combustible waste material, dust, and debris a each work shift or more frequently (as necessary)					debris at the end of	
				ISPOSE of materials su container	sceptible to spontaned	ous ignition (e.g., o	oily rags) in a listed	



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Activity	Sub-Activity	Hazard	Control				
			· Trash chutes shall be constructed of noncombustible materials or fire retardant, and plans must be approved by the CAHJ prior to use				
Fire Prevention	Yard Storage	Fire	ENSURE yard storage meets the following criteria:				
and Protection		PILE combustible materials with due regard to the stability of the piles, but no 20 feet					
			 KEEP the storage areas free from accumulation of unnecessary combustible materials, keep weeds and grass down, and provide periodic cleanup of the entire area 				
			DO NOT STORE combustible material outdoors within 30 feet of a building or structure				
			PROVIDE portable fire extinguishing equipment suitable for the fire hazard involved at convenient, conspicuously accessible locations in the yard area				
Barricades and Signs (Life Critical Activity)	General Requirements	Improper Hazard Communication and Mitigation	Review the applicable work activities and implement the associated work controls listed in JHA-00712 , <i>Barricades</i> , <i>PPE</i> , <i>FLHA</i>				
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	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.				



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Activity	Sub-Activity	Hazard	Control			1			
Safety Watch	Equipment Watch (Spotter)	Moving Equipment	clearand and disc resource	he sole purpose of a Sponse between the equipment cuss responsibilities, met es needed to execute the ment (FLHA) process	nt and hazards. The o hod of communicatior	perator and Spotten, location of the S	er(s) will jointly identify potter(s), blind spots, and		
			· T	he following practices sh	ould be considered w	hen planning the a	activity:		
			o Achieving eye contact and an acknowledgment from the equipment operator before a round heavy equipment						
			o Nev	er having Spotters stand	within the blind spot of	of equipment oper	ators or truckers		
			o Nev	er allowing personnel to	stand within the swing	radius of equipm	ent while it is operating		
			o Che	cking around and underr	neath trucks and equip	ment for personn	el before operating them		
Safety Watch	Overhead Safety Watch	Dropped Objects		rhead Safety Watch is ut xamples include:	ilized to protect persor	nnel from hazards	created during elevated		
				hort duration tasks with I cords, layout/measurem		ojects or similar ha	azards (e.g., inspections,		
			pedestri	Vork activities in remote a lans/personnel and will n n areas, etc.)					
				n conjunction with a barri le cannot be achieved)	cade for elevated worl	k/overhead hazard	ds (e.g., when 2:1 ratio of		



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Activity	Sub-Activity	Hazard	Control			-				
			 Prior to implementing an Overhead Safety Watch, the task/application muby the Responsible Superintendent (Discipline Superintendent) and documented applicable FLHA for the activity 							
			· When an Overhead Safety Watch is used, the following will apply:							
				Overhead Safety Water						
			essential personnel and vehicular traffic from entering the overhead work area. Multiple Watch may be required for activities with a larger hazard area or work areas with blind spots							
				Overhead Safety Watc						
				Overhead Safety Watc azards created by the e			and remain clear of line-			
				•			erhead Safety Watch efore allowing workers in			
High Noise	Hearing Protection	Noise	Workers	s are responsible for co	mplying with the re	equirements of the HCF	P, including the following:			
Activities			· W	lear required hearing p	rotection PPE (e.g	., earmuffs and/or earp	olugs)			
			· W	/ear noise dosimeter de	evices, as assigne	d by PIH or ES&H Rep	resentative			
			· Fo	ollow HCP-required saf	ety postings					
			· A	ttend or participate in ⊢	ICP training or oth	er requirements (e.g., a	audiograms)			
			(JHA). Ir	azards will be assessed n addition, workers will r more frequently as ap	review noise haza	rds and hazard control				



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Activity	Sub-Activity	Hazard	Contro	l		•			
			Workers applies:	.	otection devices v	when any of the following	g situations or conditions		
			· Waiting for a sound-level survey to be completed						
				Performing a task whose s wear hearing protectio		s (e.g., JHA, FLHA) and/	or this program require		
				Vorking in or passing the s or signs	rough posted noi	se hazard locations as s	pecified by the area		
			· U	Jsing tools designated a	ıs high-noise equ	ipment.			
Respiratory Protection	Voluntary Respirator Use	Improper use of Respiratory Protection				se shall be provided the Issue for Voluntary Use	information contained in		
Working with Materials	Methods of Compliance	Inhalation of Particulates (Silica)		or tasks performed indonize the accumulation o			ns of exhaust as needed		
Containing Respirable Crystalline				or tasks performed usir of visible dust	ng wet methods, a	apply water at flow rates	sufficient to minimize		
Silica (RCS)			cab or be mechan properly intake a microme	pooth is maintained as f nisms that work properly y, is under positive pres air that is filtered through	ree as practicable	an enclosed cab or booth e from settled dust, has ad seals that are in good through continuous deliv 5% efficient in the range g Value rating of 16 or b	door seals and closing condition and working ery of fresh air, has between 0.3 and 10.0		
			use of e	engineering controls and method for controlling	d associated work worker exposures	k practice controls shall l s to respirable silica dust			
			l ypical	work practice controls i	nclude the follow	'ing:			



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Working with Materials Containing	Work Practice Controls	Inhalation of Particulates (Silica)	· In exposur	nspect and maintain cont res	rols to prevent or fix n	nalfunctions that co	ould result in increased			
Respirable			· C	onfirm that nozzles spra	y water at the point of	dust generation for	or wet method controls			
Crystalline		· Confirm that hoses are not kinked on a tool used with a dust collector								
Silica (RCS)			· M	loisten crystalline silica d	lust before sweeping,	shoveling, or vacu	luming			
			NOTE: Material must be continuously and thoroughly wetted at all times with no visible dust generation							
			· S	chedule work so that tas	ks that involve high ex	cposures are perfo	rmed when no other			
			applicab	ole project personnel are	in the area					
			· When necessary, barricades and signs shall be used to control personnel access to areas to limit not only the number of applicable project personnel exposed to respirable crystalline silica but also the levels to which applicable project personnel are exposed							
			· Follow the applicable sections of UPF-CP-318, Respirator Use and Issuance and UPF-CF 214, Barricades and Signs.							
Working with Materials Containing Respirable Crystalline	Housekeeping	Inhalation of Particulates (Silica) Compressed air cleaning of surfaces or clothing is not allowed unless this method is in conjunction with a ventilation system that effectively captures the dust cloud created by compressed air. Workers shall use a ventilation system with a high-efficiency particulate a (HEPA) filter or other approved method to clean surfaces or clothing if necessary								
Silica (RCS)			applicab	ry sweeping or dry brush ble project personnel exp vacuum cleaner						
			· C	oncrete slurry (e.g., from	n dust control methods	or excess water f	rom concrete			



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			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	Drilling	Flying Particles	· R	Reference ML-SH-80176	8-A002, UPF Eye	and Face Protection L	ist		
Materials Containing Respirable Crystalline Silica (RCS)		Inhalation of Particulates (Silica) Environmental Waste	respirat A010. F Industria accordin	practices, and sks in ML-SH-801768-flow rates determined by and any attachments of exhaust as needed equired per Table 2, then is shall be worn					
			filters, e the vacu	uum with care not to sus	a half-face respira	tor (APF 10). Handle p	parts and components of		
				Sarricade and Signage:					
				all danger barricade tap s respiratory protection t					
				nsfer silica dust containe I Waste" staging area fo					



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Activity	Sub-Activity	Hazard	Contro	l		-				
						ethods should be collecte ne BNI concrete wash-ou				
Confined Space Entry	General Requirements	Engulfment and/or Entrapment		lever enter a confined s ion or permit has been		u are trained and authoriz	red to do so, and an entry			
(Life Critical Activity)		Hazardous Atmosphere	· V	lever enter a confined s	pace unless atn	nospheric testing has bee	en performed			
/ touvity)		Limited Access &	· V	lever enter a confined s	pace without an	approved permit				
		Egress	Egress Never enter a confined space without an attendant at the entrance. Even w attendant is present, do not enter without an effective way to communicate with the from inside the confined space							
						ited to, sewers, tunnels, upins, boilers, and ductwo	underground utility vaults, k			
			· T		nmon characteri	stics that help us underst	and what a confined			
				Characteristics of a conf	ined space inclu	de the following:				
			o it is	large enough for a wor	ker or workers to	enter				
				as limited means of entr	,					
			o it is form of		e to enter and w	ork in on a regular basis,	and it can contain some			
			explosiv	ve gases, toxic gases, s	lips and falls, ar	nfined spaces are oxyger nd electrical and mechani d spaces on the construc				
				F a suspect space is conducted, THEN DO NO			nfined space classification			



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Activity	Sub-Activity	Hazard	Control	•		•			
				ontact supervision to de	· · · · · · · · · · · · · · · · · · ·				
			· IF supervision cannot provide a confirmation, THEN request that ES&H classify the						
			 Do not enter any confined space prior to contacting ES&H and completing UCN-232 Confined Space Entry Evaluation 						
Lockout/Tagout (Life Critical	General Requirements	Release of Hazardous Energy							
Activity)		Defeating a Safety Device	· N	ever remove and/or tan	nper with any tag and/o	or lock installed for	the safety of personnel.		
				d tag machinery, equipr nergy before work begi		d/or systems that r	nay contain any type of		
			· Е	liminate all residual or s	tored energy before st	arting any work ac	tivities		
			electricit tagging,	he LO/TO program previty, compressed gases, I locking, blanking, capp al systems to prevent the	iquids, and steam. The ing, or blocking of mov	e LO/TO program i ving mechanical pa	ncludes requirements for arts, and for isolating		
				ou must be trained on w pment and machinery	vork-specific LO/TO re	quirements to be a	authorized to lock or tag		
			· N	ever remove and/or tam	nper with any tag and/o	or lock installed for	the safety of personnel		
				rior to work, lock and ta y contain any type of sto		equipment, comp	onents, and/or systems		
			· Id	lentify and eliminate all	residual/stored energy	prior to any work	activities		



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Activity	Sub-Activity	Hazard	Control	ľ		1			
			 Sign the authorized lockout/tagout EIP permit, as required in accordance with proceeding to work activities Do not perform work on any machinery, system, or equipment covered by LO/TO procedures without authorization or approved training 						
				or restricted-use tagging		nent, or system devices of authorization and/or if no	covered by any type of a tin accordance with		
			All panels and circuit breakers shall be easily identifiable with signage and NFPA 70E warning labels						
			equipme			form zero-energy checks ill be used as required b			
			remove	d from service and quar	antined. Insulatir	rior to use, any damaged ng gloves shall be rated er annual testing records	for the hazard, air tested		
			· C	Check access and escap	e routes are clea	ar at all times			
Lockout/Tagout	Prerequisites to	Release of	The follo	owing are prerequisites	to isolation:				
(Life Critical Activity)	Isolation	Hazardous Energy				nt equipment until they p ate a specific item of pla			
						e approach boundaries o aining, competencies, ar			
				ny personnel escorting with any plant compone		the visitor does not mar of this Procedure	nipulate or otherwise		



JHA NO.:	JHA-007	760		REV:	1	ISSUE DATE:	2-28-25		
JHA TITLE:		ion of Sprinkler Pipe, s and Associated Hard	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Control						
				n EIP is not always requirect control of the indivi			executed by isolation		
			 Personal locks shall only be attached and removed by their owner utilizing t uniquely matched key 						
Lockout/Tagout (Life Critical Activity)	Preparation, Issue, and Implementation	Release of Hazardous Energy	The intent of CFN-1312A and CFN-1312B is to protect people. If any doubt exists						
			the pern		ssued by the TA, and t	the WGS and/or A	E for the working group		
Pneumatic	General	Over	Contact	IH for specific hearing p	protection requirement	S.			
Pressure Testing	Requirements	Pressurization Unnecessary Exposure/	Barricad	le and Signage:					
		Inadequate Communication		nstall caution signs, or ca protection at the approx			s or tags requiring		
		Laceration	List the	noise sources and cont	act information on the	sign or tag:			
		Noise (Pneumatic Pressure Testing)	· S	upervisor's name, phon	e number, or radio cha	nnel			
		Pressure Release/Flying		/ear sealed safety glass hen depressurizing pne		ice shield OR safe	ty glasses and a face		
		Particles Unintentional	· S	ecure hoses with prope	rly installed whip restra	aints			
		Release of Stored		nstall danger barricade t ry as defined in the Pres		or tags at the Mini	mum Required Test		



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JHA TITLE:		ation of Sprinkler Pipe, rts and Associated Har	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Contro	l l		1			
		Hazardous Energy (Pneumatic)	· L channe		on on the sign or	r tag: supervisors name,	phone number, or radio		
				n or suspension of the te eleased and the gauges					
			Ensure all fittings, connections, and test plugs are secured and/or torqued When increasing or releasing pressure, slowly open valves to avoid hammering the system. Report leaks as soon as they are identified. Release energy in a direction that will minimize exposure						
				ο not adjust or tighten μ ndred and sixty-five (165		ings or bolted connection	ns if the pressure is above		
			· F	ittings are to be adjuste	d or tightened or	nly when the pressure is	165 psi or lower		
						Construction Phase Systematics are against an energial valves are against a energial valves are against a energial valves against a energia	em and Equipment Safety ergized system		
			· E	nsure all required safet	y tagging is in pla	ace			
Hydrostatic Pressure	General Requirements	Unidentified and Unmitigated		he use of pressure relienting of the pressure reli		uired. Address the set pro	essure, sizing, location,		
Testing		Hazards A control point shall be identified. The control point is defined as the location (i.e., manifold, gas cylinders and/or compressor, pressure gauge, relief valve, isolated:) required to safely control and perform the test. The number of persons permit control point shall be kept to a minimum							
				lotify all potential effectencing the test	ed personnel of t	he test area safety boun	daries prior to		
				Contact the Environment mpliance	al Representativ	res prior to discharging w	vater for proper method(s)		



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JHA TITLE:		on of Sprinkler Pipe, and Associated Hard	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Control			- 1			
			Ensure all fittings and connections are tight or torqued						
			system.	/hen increasing or releas Report leaks as soon as e exposure					
			· E	xamination will not begin	until the pressure ha	as been maintained	for at least 10 minutes		
				O NOT adjust or tighten Fittings are to be adjust					
				/hen releasing pressure sure has been released			barricades in place until		
			· E	xpansion joints will have	restraints to prevent	over pressurizatio	1		
				arricade and Signage:					
				testing with pressures be radius around the test riç					
				ng with pressures greate round the test rig, test pl			ng in a ten (10) feet		
			List the channel	contact information on th	ne sign or tag: superv	isors name, phone	number, or radio		
Field Level Hazard Assessment (FLHA)	Field Level Hazard Assessment Process	Unidentified and Unmitigated Hazards	shift or v mitigate	LHA is a pre-task briefin when new tasks are und environmental, safety, a . The JHA process must	ertaken. It is a proces and health risks and h	s of employee part azards associated	with their planned work		



JHA NO.:	JHA-0076	0		REV:	1	ISSUE DATE:	2-28-25
JHA TITLE:		on of Sprinkler Pipe, and Associated Hard	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control	1		1	
Field Level Hazard Assessment (FLHA)	Implementing Field Level Hazard Assessment	Unidentified and Unmitigated Hazards	change, Replace to Using U o Cone o Resc the work o Ensu o Cone The Di The Tree Tree Tree Tree Tree Tree Tree T	to be performed ure personnel documen duct appropriate FLHA he work area changes ersonnel with different c iffering types of work ar he work activity change he Responsible Superin urn in completed forms	following: I review the work location the sure they are identified a following: the the work crew and sure work, anticipated has to participation in the "Exprision of the sure performed in close put the sure performed in close performed in close performed in close performed in close put the sure performed in close per	on with involved ped and hazard cornd uncontrolled by upport disciplines zards, and controls mployee" section the following conditional controls orking in close programmity ssary I-23464, UCN-235 bllection points. The	ersonnel htrols/mitigations are in hthe approved JHA s/mitigation measures for of UCN-23552 tions exist: ximity 44, CFN-1268) as he end of shift review/de-
Scaffold Use (Life Critical Activity)	Scaffold User	Unauthorized Use Fall to Elevation Below	Compete	ever access any scaffol ent Person for scaffolding bey the scaffold require	ng before each work sh		ction by a designated



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JHA TITLE:		tion of Sprinkler Pipe		WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control				
Activity	Sub-Activity Sub-Activity	Slips and Trips	· N requiren for Use) · N access acce	ever use any scaffold we ments include strict adher, yellow (Caution), and gever access a red-tagged a red-tagged scaffold, and ever access a yellow-tationsider all scaffolds with ever alter or modify a set and authorized to do set ouching-the-tag before ever access any scaffold prior to use, looking for ever access a red-tagged st wear required fall professes wear required fall professes a yellow-tandicating on the scaffold and duty (i.e., 25 pounds prosuring scaffold is not leaver access.)	erence to the color-code green (Safe for Use) to green (Safe for Use) and they are required to greed scaffold without mout tags as red-tagge caffold, unless you are contact as the color of the	led tagging system ags, as appropriate orized scaffold built of wear fall protection of the proper fall protection and scaffolds a designated Correction of the control of	ders are permitted to on
			· N	laintaining housekeeping otifying scaffold erectors need repair		•	dropped objects



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JHA TITLE:		on of Sprinkler Pipe, s and Associated Har	dware	WORK PACKAGE NUMBER:	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Contro	ĺ		-		
				Jtilizing barricading, as r are incomplete OR who I				
Scaffold Use (Life Critical	Scaffold Safety	Unauthorized Use Fall to Elevation	· C	Climbing on scaffolding o	components (e.g.,	cups, rings, diagonal m	nembers) is not allowed	
Activity)		Below Slips and Trips	using a	ree Climbing scaffold st Personal Fall Arrest Syable anchor point is not a	stem (e.g., harnes		greater than 6 ft without e) tied off to an	
			· Е	nsure an adequate wor	king surface durin	g erection/dismantleme	ent activities	
Hoisting and Rigging Work	General Requirements	Loss of Control of Material	 Never conduct lifting operations, unless you are an authorized operator with verified competence. Never work under a suspended load 					
Operations (Life Critical Activity)		Tipping Loads Crushing Injuries Falling Material		ollow the requirements delines when conducting			nanufacturer's instructions	
/ totivity)		T dilling Waterial	· Ir	nspect Rigging equipme	nt prior to use			
			· N	lever hoist loads over ot	her people			
			· N	lever work within a load	shadow (i.e., any	where the load can fall)	
				lever cross a barricade r r of the lift team and you				
Hoisting and Rigging Work Operations (Life Critical Activity)	Provision of Properly Trained Personnel	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material		s performing certain tasł d persons operating crai			y statute) to be formally ed.	



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JHA TITLE:		Installation of Sprinkler Pipe, Supports and Associated Hardware			N/A	SPECIFIC N/A LOCATION:	
Activity	Sub-Activity	Hazard	Contro	ı			
Hoisting and Rigging Work Operations (Life Critical Activity)	Mitigating Risk	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	area be	ehind a crane as crane b	ooms often spr	and monitored by supervision. This includes ng back and fall to the rear when a crane fair quirements and personnel are trained in its	ils
Hoisting and Rigging Work Operations (Life Critical Activity)	Checks and Pre- Lift Meeting	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	· SS · SS · N · T crane coperform · T other populative shall be · T risk ope	Set-up is thoroughly che Set-up is in accordance No previously unidentified The PRE and Rigging Suchecklist and confirm that in the lift, in accordance of the PIC conducts a prefersonnel involved beforen the operator, signal prefers a prefers a prefers and the PIC ensures a preferations. All participants	with the plan and hazards exist upervisor Ensur at all equipment with Y17-95-64- lift briefing with a starting any lo erson, and othe ft safety checkli are required to	before starting any load-handling operation of the Crane Operator has completed the dail and systems are in a satisfactory condition to 1872, UPF Cranes Use and Operation. The rigging crew, equipment operators, and a sad-handling operation. Clear communication of persons directing and monitoring the operators of the CFN-1092 is completed for medium- or crising the checklist to confirm that the planned y understand their roles and responsibilities.	ly all n ition
Hoisting and Rigging Work	Hazard Briefing	Loss of Control of Material				any job-specific procedures regarding haza s include, but are not limited to, the following	



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Activity	Sub-Activity	Hazard	Control			•	
Operations (Life Critical Activity)		Tipping Loads Crushing Injuries Falling Material	to electric danger to the triangle of the extension of the ex	icity or mechanical energio the riggers or other person and Rigging Hazard valuation, should be use Construction Electrical Science of a coving Equipment Hazar machinery, vehicles, or activities exist azardous Materials — whole release of hazardou onfined Spaces — when fiting Over Personnel — iting Over Personnel — iting Over Personnel — iting Over Dersonnel — itin	ed. Reference UPF-MASAfety Manual, to determine rigging operations taken the rigging operations are rigging operations are rigging operations are rigging operations taken the hardward rigging operations taken the personnel involves	ANUAL-CM-001, Umine UPF require rations take place the riggers or other the riggers or other to rigging (i.e., attached the lifting/rigger from the intended the place in close pred in the rigging action of the place in close pred in the rigging action of the rigging action of the place in close pred in the rigging action of the rigging action of the place in close pred in the rigging action.	ranium Processing ments for work near in close proximity to rsonnel involved in the hts where the presence er personnel ed space in whole or in part, under aching and/or detaching ing hardware only, and to d load prior to or after it



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JHA TITLE:		tion of Sprinkler Pipe, ts and Associated Har	dware	WORK PACKAGE NUMBER:	SPECIFIC LOCATION:	N/A	
Activity	Sub-Activity	Hazard	Control				
			over, gr		ted or where ur	cranes, hoists, or loads a nderground structures, va kist	
Hoisting and Rigging Work Operations (Life Critical Activity)	Monitoring the Operation	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	operation is particular unanticular explained the assistant of the second of the secon	on is progressing as plant cularly important when u pated shifting of weight ed, and the PIC and Cra stance of a CRE shall be the PIC/Crane Operator	nned and the ec pending or flipp shall be cause ne Operator are e sought to inve ensures the loa onfirmed that the	e satisfied it is safe to recestigate ad is not completely release load is leveled/aligned a	apacity. This monitoring g multiple cranes. Any the reason is adequately ommence. If necessary,
Hoisting and Rigging Work Operations (Life Critical Activity)	General Requirements	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	· In rigging o	nspect all rigging equipments on figuration. Verify that dentify and restrict accellear the load travel path derform an initial lift to all the rigging crew shall at	nent prior to use t the tags are cu ss to areas whe n. No hoisting of low for load sett each non-conduct that length to cor	re hoisting and rigging oc materials over occupied ling, and adjust rigging as	he load's weight and cur equipment or personnel s necessary to safely control the load.



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JHA TITLE:		ation of Sprinkler F rts and Associated	• '	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A			
Activity	Sub-Activity	Hazard	Control			<u>.</u>				
				tay arms' length from t ow shoulder height and			Keep hands off material			
			 Personnel performing rigging operations shall not place any part of the body under a suspended load Rigging/hoisting of permanent plant hangers, pipe spools, valves, blinds, etc., must be physically secured prior to leaving the material unattended 							
		 Means of securing are welding, rigging, lashing, clamping hardware, or other appr means by Piping/Rigging Superintendent 								
			Utilize a	pproved tethering tie o	ff restraints or alt	ll heavy overhead rigging ernate dropped object p General Foreman and Fo	revention controls where			
			Field Le	vel Hazard Assessmer	nt/Job Hazard An	alysis Program (FLHA/J	HA) Process			
			· Al		will be a part of	the steel erector crew FL	HA UP meeting at the			
			· C	connectors will clear all	the rigging clear	up hooks while lowering	or raising the hoist line			
			· N	ever take eyes off the	oad and rigging	while load line is in motic	on			
			· Al	II Connectors and Rigg	ers will have Sub	Part R training				
			· Tr	Training must be verified through union hall training centers						
			· 0	perator and riggers wil	l clearly commun	icate when loads are rea	ady to hoist and release			
			· D	o not operate on high-	speed mode until	and all clear has been g	given			



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Activity	Sub-Activity	Hazard	Contro	l		.	
			agree o workers substitu	on the voice signals that is need not meet again to ted, there is confusion a	will be used. Or or discuss voice sabout the voice	or, signal person, must conce the voice signals are signals unless another wasignals, or a voice signal	agreed upon, these orker is added or is to be changed
						ving three elements, give istance and/or speed fun	
			· F	ollow the requirements	of the Lift Plan/I	Data Sheet	
			· C	Crane Coordinator to be	utilized in all are	eas where Cranes can cl	ash:
				Outies include:			
			o Coll pick sch		ne operations a	nd superintendents, orga	nize and prepare crane
			o Rev	riew Crane pick plans fo	r the shift prior t	o starting operations/FLF	HA up review with team
						be present to Define/enfo act, and crane movement	orce/authorize limits of s to eliminate any clashes
			o Mai on the p	• •	nsistency with s	afe operations and comm	nunications with all cranes
				ordinates and evaluates adius of the tower crane		ncrete placing equipmen jib	t movements within the
				s the demising wall or al		signed operation quadral ors must first seek cleara	nt. When Operators need unce from Crane
			o Defi	ines limitations if more t	han one crane e	enters or operates within	the same quadrant



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Activity	Sub-Activity	Hazard	Control							
			o Alter	rnates crane movement v	where one crane may	conflict with anoth	er crane			
			o Assigns operation quadrants for cranes and concrete placing equipment and communicates these quadrants to the operators and signal persons by use of the crane coordination map							
			o Stop	s rigging activity for safe	ty or coordination reas	sons				
			o Ensu	ures signal persons and	operators in their area	have functional ra	adios			
				pecifies each crane's par and counter jib swing a		g the support crai	nes are clear of the tower			
Bull Rigging (Life Critical Activity)	Training and Competent Personnel	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	shall be	involved in planning and trained and qualified to p Il Rigger Qualifications.			s on construction projects nce with Y17-95-64-900,			
Bull Rigging (Life Critical Activity)	Categorization of Bull Rigging Operations	Loss of Control of Material Tipping Loads Crushing Injuries Falling Material	each Bu being eit		Bull Rigging operations I" based on the operat	s shall be categori	appropriate to the risk of zed by the RS/BR PIC as eristics in accordance			
Bull Rigging (Life Critical	Bull Rigging Planning	Loss of Control of Material Tipping	f The BR PIC shall explain the Bull Rigging plan to the participants before starting the operation. The formality of this discussion varies by risk category							
Activity)	Requirements	Loads Crushing Injuries Falling Material	The BR PIC creates the Bull Rigging plans for general risk operations in discussion with the Bull Rigging Team Members							
				he plan is a verbal agree nd FLHA	ment on how the oper	ation is to be cond	ducted in conjunction with			



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Activity	Sub-Activity	Hazard	Control							
			The BR PIC in a general risk Bull Rigging operation shall, at a minimum, be a Rigger as defined in Y17-95-64-900							
			plan sha	he BR PIC will complete all be supplemented by a formation required to ad	a relevant sketch of loa	d-handling metho	Bull Rigging Plan). This ds for the task and any			
			The Bull Rigging Plan will show where the rigging is to be placed and the specific rigging needed for the task							
			The BR PIC develops the Critical Risk JHA and validates it has been reviewed and understood by all team members involved in the Bull Rigging operation							
			operatio team me	he BR PIC will conduct ons, reviewing the JHA, embers of the work plan e risk to personnel and p	FLHA card, and, as ap , the hazards present,	plicable, the Bull F	Rigging Plan to inform			
			attendar controls	Il members of the Bull F nce at the pre-operation , and any hold/stop wor ,ired to be directed by a	briefing and agreemer k pointsBull rigging act	nt to adhere to the	, documenting their work plan, established a Critical Risk Operation			
Bull Rigging (Life Critical	Equipment	Loss of Control of Material Tipping		ll rigging shall be used i ations and/or guidelines		by the manufactu	rer and within their			
Activity)		Loads Crushing Injuries Falling Material	after app	ll elements of the rigging plying appropriate rating , hitch configuration use	reduction factors for t		in their rated capacities 0/d ratio, side loading			
				qualified rigger shall ins Ensure it is safe.	spect rigging equipmer	nt prior to use and	as necessary during its			



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Activity	Sub-Activity	Hazard	Control			-				
			If a piece of lifting or load restraint equipment is deemed to be defective, an Out of Service tag shall be attached to it and the equipment shall be returned to the Rigging Superintendent or designee for repair or replacement. Defective equipment deemed beyond practical or economic repair shall be rendered unusable and properly disposed of the register of Lifting Equipment sh be updated accordingly. Periodic and annual inspections shall be performed in accordance with Y17-95-64-875, UPF Control of Hoisting and Rigging Equipment.							
			All lifting	g and load restraint equ	ipment and accessori	es must be stored in	n a controlled area.			
Bull Rigging (Life Critical Activity)	Structural Steel Limitations	Loss of Control of Material Tipping Loads Crushing Injuries Falling					ent of rigging those points lirection) the rigging will			
		Material		oading of a structural st load bearing capacity c			s the member is designe echanical support			
			propose If any po		PIC shall elevate the re noted between the	concern to PFE for capacity of the rigg	review and confirmation. ing anchor point and the			
			points to	ating, landscape timber o support rigging hardw capacity and suitability f	are. All anchors shall	be verified by Proje	ct Field Engineering for			



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Activity	Sub-Activity	Hazard	Control			'		
Bull Rigging (Life Critical Activity)	Monitoring the Operation	Loss of Control of Material Tipping Loads Crushing Injuries Falling	track, th			e Bull Rigging operation parameters, and no unal		
		Material	The BR PIC ensures loads and rigging equipment, etc., are always monitored to ensure to operation is progressing as planned and the rigging equipment remains within capacity. The monitoring is particularly important when upending or flipping loads. If any unanticipated so of weight occurs, the operation shall be stopped until the reason for the weight shift is added understood and the BR PIC and Bull Rigging team are satisfied it is safe to resume operation necessary, the assistance of a rigging engineer shall be sought to investigate. The BR PIC ensures the load is not completely released from the rigging equipment until confirmed that the load is leveled/aligned as required, is stable, and is securely supported.					
Work at Heights (Life Critical Activity)	General Requirements	Fall to Elevation Below		the applicable work ac Elevated Work	tivities and imple	ment the associated wor	k controls listed in JHA-	
Creating Floor and Wall Openings	Walking/Working Surface Modification	Fall to Elevation Below Dropped Objects	surfaces		via primary fall p		ting walking/working all be controlled through a	
			The req	uirements of the permi	t include:			
						nined to perform such wo ove/replace the cover/gra		
			fall haza	ard. All access points to	the area shall b	alled around any potentia e equipped with a swing quired beyond This Point		



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Activity	Sub-Activity	Hazard	Control			•			
			· Fa	all protection must be pr	rovided and used by th	ose working inside	e 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 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 interfer with other work activities. Stacks or bundles of removed material must be organized and stored accordance with floor-loading limits 						
				/hen reinstalling covers/ n completely re-installed			or shall verify all material ened/secured		
			the Sup	/hen all items have beel ervisor and authorized E d, and the area released	3NI ES&H Representat	rly secured, the artive for completend	rea shall be inspected by ess, the barricade can be		
			 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	General Requirements	Contact with Surrounding	· N	lever operate any mecha	anical elevated work pl	atform without do	cumented training		
Platforms (MEWPs) (Life		Structure, Equipment, or	· N	ever stand on the toe bo	oard, mid-rail, or top ra	il of the basket			
Critical Activity)		Commodities Fire		lever work from the bash ven during ground positi		ff to the manufact	urer's designated anchor		



JHA NO.:	JHA-00	760		REV: 1		ISSUE DATE:	2-28-25		
JHA TITLE:		ition of Sprinkler Pipe, rts and Associated Har		WORK PACKAGE N NUMBER:	I/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Contro		-				
		Entrapment Limited		ever exit the basket at heig stained from Project ES&H		umented approva	l for the deviation has		
		Access/Egress Dropped Objects Electrical Shock Fall to Elevation		ollow the operating required ons, which apply to all constractors					
		Below	 Never operate an aerial/scissor lift that has not been inspected by a trained accordance with the requirements specified in UPF-CP-224. At the beginning of ea before each use, a trained operator will visually inspect and functionally test the lift the results on an approved form 						
			· E	work task and loc	ation (e.g., indoors				
			· F wind sp	ollow all directions related t eeds	to adverse weather o	conditions, includi	ing lightning and high		
			be prote	he operator/safety manual(ected from the elements. If to ocation as determined by the	this cannot be accor	mplished, a hard o	copy may be stored in a		
			· A	Il controls must be plainly n	narked as to their fu	nction			
			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 the extinguisher. Scissor lifts must be equipped with a fire extinguisher 2.5 lbs. or greater. As (boom) lifts must be equipped with a fire extinguisher 10 lbs. or greater						
			· В	oom-type aerial lifts must b	e equipped with ant	i-entrapment devi	ices		



JHA NO.:	JHA-00	760		REV:	1	ISSUE DATE:	2-28-25		
JHA TITLE: Installation of Sprinkler Pipe, Supports and Associated Hardware				WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Control						
			· Aerial/scissor lifts are to be inspected daily before use or at crew/shift change and documented on a UCN-23248, <i>Aerial/Scissor Lift Daily Checklist</i>						
Mobile Elevated Work	Operating Requirements	Contact with Surrounding	ate aerial or scissor lift de	evices in accordance with					
Platforms (MEWPs) (Life Critical Activity)		Equipment, or Commodities	Commodities Section 3.0, Fall Prevention and Protection						
		Fire Entrapment Limited Access & Egress Dropped Objects Electrical Shock Fall to Elevation	lifting load platform the aeria ES&H R	ad capacity. The weight is will be included as pa al/scissor lift basket or page and docerial/scissor lift platform	approval from the Respo LHA Card before lifting th	ial/scissor lift baskets or annot be contained inside nsible Supervisor and an			
		Below				d with outriggers, outrigg	ers shall be positioned on		
			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 lowering the basket use interior grab rail for balance when provided 						
				o not tie electrical cords g horizontally or vertica		, or hoses to an aerial/sc	issor lift when operated		



JHA NO.:	JHA-0076	60		REV:	1	ISSUE DATE:	2-28-25
JHA TITLE:		on of Sprinkler Pipe, and Associated Hard	dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control				
				hen at the work location e platform mounted con			
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	the lift p	cissor lifts may be used latform under the follow There is no other estal The job must be evaluaccess the elevated ar The Responsible Super the activity and docum Personnel must use the entering or exiting the nel must ensure 100% to divide a rea or structure, from the elevated area or structure, or structure, from the elevated area or structure, from the elevated area or structure, from the elevated area or structure, from	ing requirements: blished safe access to a ated to ensure the use rea or structure ervisor for the work and ent the approval on CF e lift manufacturer's ac- lift e-off is maintained thro the elevated area or s	the work area (e.g of an aerial lift is t I an ES&H Repres FN-1323 ccess point (e.g., g oughout the transit	the safest means to sentative must approve late, slide bar) when ion from the lift to the
Ladders	General Requirements	Fall to Elevation Below Dropped Objects	including La or greate Orecomm Ti S E	adders must be vendor- er only nonmetallic ladders nended) ripod ladders (ladders w traight ladders longer th xtension ladders longer tepladders and platform	certified as American N will be purchased and with three legs) are prohan 20 feet are prohibite than 36 feet are prohibite ladders longer than 12	National Standards used on the site (nibited ed bited 2 feet are prohibite	s Institute (ANSI) Type 1A fiberglass ladders are
			· A	ll portable ladders will b	e equipped with nonski	id feet	



JHA NO.:	JHA-00	760		REV: 1	ISSUE DAT	ΓΕ: 2-28-25	
JHA TITLE:	Installation of Sprinkler Pipe, Supports and Associated Hardware			WORK PACKAGE N/A NUMBER:	SPECIFIC LOCATION	N/A I:	
Activity	Sub-Activity	Hazard	Control				
Ladders	Ladder Use	Fall to Elevation Below Dropped Objects	without L L L Other fa When u Do no Two o people Place another Person ladder Do no If work Preven overhea Do no When landing	ladders prior to use to verify: Ill hardware and fittings are secured binding or undue play adder rungs are free from grease, adder safety feet and other auxiliant adder does not have any broken outly equipment sing a ladder: It use ladders in any manner other for more people will not work from the portable ladders on a level and state person to prevent slipping annel shall face the ladder when as a transform portable ladders, then remote unauthorized entry in the area be ad hazards are present during ladd a stand on the platform or top step of the sit on or straddle a stepladder to proceed a step	oil, mud, and other mater y equipment are in good r missing steps, rungs, cle than their intended purpor e same ladder unless it is ble surface and secure the cending or descending an while ascending or descendin within the confines (relow the ladder with barrier use of a stepladder (i.e., top to perform work and the top of the ladder 36 ause of the ladder's configures.	condition eats, broken side rails, or any eats, broken side rails, or any se s specifically designed for two mem or have them held by ad use both hands to grasp the ending ladders side rails) of the ladder cades or flagging when wo steps) 6 inches beyond the upper guration, install a grab rail(s)	



JHA NO.:	JHA-0076	60		REV:	1	ISSUE DATE:	2-28-25	
JHA TITLE:	HA TITLE: Installation of Sprinkler Pipe, Supports and Associated Hardware				N/A	SPECIFIC LOCATION:	N/A	
Activity	Sub-Activity	Hazard	Control			1		
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					
Mobile Elevated Work Platforms	Elevated Work Platforms (MEWPs) (Life Surround Structure Equipmer	Contact with Surrounding Structure.	equipme	he operator is to ensure ent, and/or commodities				
(MEWPs) (Life Critical Activity)		Equipment, or Commodities	-work walkdown a below are encoun	and determine the need tered				
		Falls	· Area blind spots exist OR					
		Inadvertent Movement Electrical Shock	· O activities	Obstructions exist in the ps) OR	ath of planned travel (e.g., clutter, other	equipment, other	
		Licotrical Cricon	. 0	bstructions exist when ra	aising or lowering the I	ift OR		
				erial lift tip over potential en surface OR	. Contact supervision	and ES&H prior to	operating an aerial lift	
			· Other (e.g., abrupt edges, holes, tight spots, soft surfaces)					
				mployees riding or working connected with a perso				
			To prevent inadvertent lift/platform control activation, engage the Emergency Stop switch when the lift is not in motion					



JHA NO.:	JHA-007	60		REV:	1	ISSUE DATE:	2-28-25	
JHA TITLE:	A TITLE: Installation of Sprinkler Pipe, Supports and Associated Hardware			WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A	
Activity	Sub-Activity	Hazard	Control					
			 Always treat electrical equipment/cables and components as if they are energized. Any electrical components obstructing the operation of an aerial lift must be removed, properly protected, or managed with the use of a spotter 					
			Standard 120-volt extension cords and 208-volt (single-phase twist lock) extension cords are a tool of the trade and craft persons can plug or unplug these cords after shedding the load (e.g., turning off the welder, tool, or heater)					
			. 0	only Temporary Power E	lectricians can plug in,	unplug, or route 4	180-volt cord sets	
			o Only Temporary Power Electricians can operate or reset any breakers in temporary electrical equipment such as panel boards.					
Removal of Fireproofing	Cementitious Fireproofing (via non-powered	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)					
	tools)		o Wet	the cementitious firepro	ofing with water to red	uce the generation	n of dust	
Vibration Producing Equipment and Activities	General Requirements	Hand/Arm Vibration	Arm Vib	o not exceed the trigger oration Levels. Note that IH if you are using seve	these limits are cumula	ative over the cou	rse of a work shift.	
Activities			with a co	o-worker			a different task or rotate	
			· 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					
			· E	ncourage good blood ci	rculation by:			
			o Keeping warm and dry by dressing appropriately					
			· M	lassaging and exercising	g the fingers during wo	rk breaks.		



JHA NO.:	JHA-0076	0		REV:	1	ISSUE DATE:	2-28-25
JHA TITLE: Installation of Sprinkler Pipe, Supports and Associated Hardware			dware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control				
Environmental Protection Practices and Requirements	Spill Prevention and Control	Unwanted Environmental Impact	o Store o Prov o Ensu · Ta o Shut o Isola o Appl · Ta o Evac o Notif Respons	aintain best management e hazardous materials avoide weather protection a sure spill kits are stocked take the following actions at down the equipment atte the spill and prevent to yabsorbent material and take the following actions counter as necessary or as following specific to do so, then contains a safe to do so, the safe to do so, the	way from drainages, so and secondary contains and available on site if a minor (hydraulic, the spilled fluid from end remove or container if a major or emergents directed by emergental OC at (865) 574-71 epartment as necessa	treams, and wetlament as necessar fuel) spill occurs: Intering into drains ze the contaminatory spill occurs: Cy services persor 72. The OC will diry	or waterways ed soil
Defeating Safety Devices (Life Critical Activity)	Guards / Safety Protection Devices	Unsafe Conditions	If safe to do so, then contain the spill to prevent it from spreading. 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 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				



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JHA TITLE:		on of Sprinkler Pipe, and Associated Hard	lware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control	Control			
Loading or Unloading Equipment and Materials	Loading and unloading trucks and trailers with a forklift	Property Damage to Vehicles, Equipment, or Permanent Plant Equipment Serious Injury to Pedestrians and/or Workers	1. A bar extends 2. A suf control t zone. The sporear of t	prior to use Use a spotter in conges Verify absence of overlequipment Inspect transport trailer anticipated loads Properly use tie down s Use an adequate numb Ensure the width of ran Use a spotter when loa operator needs assistan hazards Only load/unload equip thoroughfares able Methods for Flatber ricaded exclusion zone to a minimum of 15 feet ou ficient number of spotters the loading / unloading a otter(s) should never stan he trailer where a load of the cannot be maintained	sted areas or if line-of- nead obstructions and is to ensure the floor is straps. Position yourse her to secure the load, hips is adequate for the ding/unloading a piece nice maintaining adequi ment on level ground in the ded Trailer Loading/Ur hat encompasses the lutward laterally on the is to adequately provide the rea to exclude entry by and anywhere on the op- ould fall while a forklift	ading/unloading, a site is restricted power lines prior is in good condition of out of the line-or connect to equipre e items traveling of e of equipment on uate clearance bet in safe areas that nloading: entire length of th opposite side and e direction to the fly any personnel in	to loading/unloading and can withstand f-fire prior to releasing. ment at proper locations in the ramps a trailer, when the tween the equipment and are out of high-traffic e truck/trailer and rear of the trailer, OR forklift operator and ito the personnel free



JHA NO.:	JHA-00	760		REV:	1	ISSUE DATE:	2-28-25		
JHA TITLE:	JHA TITLE: Installation of Sprinkler Pipe, Supports and Associated Hardware				N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Control						
			cab or le the truck strapped The spo	eave the area until the t k driver should leave th	railer is completely e area or remain ir pading and unload	unloaded. Conversely the truck cab until the	-		
Post-Installed Concrete	General Requirements	Release of Hazardous Energy	· Р	PICA installations.		required by the Proje	ct specifications) to		
Anchors		Electrical Hazard Property Damage	· Р	ICA activities shall be o	locumented on CF	N-1081.			
		1 Topolty Ballage	· R	egarding embedded ite	m reviews:				
			· R	Reviews are required for	the following cond	rete excavations:			
			· D	epths greater than 1-in	ch from the concre	te surface when non-c	arbide tooling is used		
			· D	epths greater than 4-in	ches from the cond	crete surface when car	bide tooling is used		
			Civil Fie	For non-permanent inst eld Engineer (LCFE) has e excavation approved,	s evaluated the sco	pe. Once the evaluation	t required when the Lead on is complete and the		
			· A	drill stop (or similar de	vice) shall be used	to prevent damage to	embedded items as		
			 Non-carbide tooling and carbide tooling with 4 or more cutter head (including full carbide head) shall utilize a drill stop at all times. Tooling shall be controlled by the FE to prevent unauthorized use 2 Cutter head carbide tooling shall utilize a drill stop for concrete excavation depths > 4-inches from the concrete surface 						
			· D	rill stops may be turned	off (for both non-o	carbide and carbide to	oling):		
			o Whe	en permitted by design					



JHA NO.:	JHA-007	60		REV:	1	ISSUE DATE:	2-28-25		
JHA TITLE:	E: Installation of Sprinkler Pipe, Supports and Associated Hardware			WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Control						
			· A to proce	fter the condition has be ed. FE inspection is req	en evaluated by the F uired prior to installing	E and verbal author anything in the ex	orization has been given ccavation		
Post-Installed Concrete Anchors	Pre-Drilling Pre-Excavation	Release of Hazardous Energy Electrical Hazard Property Damage	d tolerances, templates are recommended to facilitate the layout.						
			· If a location device (i.e., rebar scanner or ground penetrating radar) cannot be utilized due to adjacent interferences, 1/4-inch diameter pilot holes may be used.						
			· When practical, it is recommended for the RS (or designee) to use a locating device (i.e., rebar scanner or ground penetrating radar) for locating embedded items (i.e., reinforcing, pipe, conduit, etc.) or drill pilot holes to establish a pattern within the area where the PICA(s) is to be installed.						
Post-Installed Concrete	Drilling Excavation	Release of Hazardous Energy	· E	nsure that drill stops are nents.	obtained and used wh	nen required in ac	cordance with the		
Anchors		Electrical Hazard Property Damage		embedded item is enco continuation.	ountered, stop drilling/e	excavating and not	tify the FE for resolution		
Ergonomic Hazard	Various Activities	Musculoskeletal Disorder Injury		ES&H/IH (Radio: Chani are encountered.	nel 1) to evaluate your	work activity if any	y of the following risk		
Activities		Risk Factors							
			The risk of musculoskeletal disorder (MSD) injury depends on work positions and posture often the task is performed, the level of required effort and how long the task lasts. Risk f that may lead to the development of MSDs include:						



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JHA TITLE:	Installation of Sprinkler Pipe, Supports and Associated Hardware			WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Contro	l		<u> </u>			
			 Exerting excessive force. Examples include lifting heavy objects or people, pushing of 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 s 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 till 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.						
			increase	e the potential for MS	Os to develop. For	any one of the above ris example, many of the o luct or in a cold environn	perations in meatpacking		
			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 to more difficult to control. Hand-arm vibration may cause a worker to lose feeling in the hands 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 effort of vibration can damage the body and greatly increase the force which must be exerted for a task.						
				Combined exposure to the combined exposure to		ctors. May place workers	s at a higher risk for		



JHA NO.:	JHA-00760	REV:	1	ISSUE DATE:	2-28-25
JHA TITLE:	Installation of Sprinkler Pipe, Supports and Associated Hardware	WORK PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Ensure a new co	orresponding CFN-1251, U	IPF Construction Attendance Sheet,	is signed and inserted in th	e CWP to docume	nt JHA briefing.
PREPARER:		Anton Panev Printed	Am Pm	<u> </u>	02/28/25 Date
APPROVAL:			-		
ES&H:		Robert Drake	Routch	<u></u>	02/28/25
		Printed	Name/Signature		Date
SITE MANAGER: (DOA-CM-801768-A214)		Brian Tevis Printed	Name/Signature		03/13/25 Date