

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-0	0724	REV:		0	ISSUE DATE:	11-22-23
		nvironmental		PACKAGE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard		Control			
Hazardous Material Use	Hazardous Material Storage	Improper Storage of Hazardous Materials			n health and the envir	containers compatible with t onment from unintended exp	
		Spill		· A "first in, first out and become a waste pro		st be used to help Ensure m	aterial does not expire
		Fire				nce with the completed UCN peratures, to prevent produc	
				Storage areas mu inventoried, and segrega		so materials can be properly compatibility	inspected,
Hazardous Material Use	Labeling of Hazardous	Inadequate Hazard Communication		· Labeling of hazard Labeling Instructions	dous materials shall b	e in accordance with Appen	dix B, <i>Container</i>
	Materials				employees with the s	and words, pictures, symbo pecific information regarding	
				Project Personnel portable container for im		ous materials from a bulk conneir shift only	ntainer to a suitable
						torage tanks) must have sigr ntain the same information a	
Hazardous Material Use	Use and Disposal of Hazardous Materials	Contact with Che (adsorption, inhal ingestion, Asphyxiation)		Contact IH or ES8 for the specific chemical		JCN-23353 SDS Evaluation working with	Form is not completed
		Improper Dispos Hazardous Mate		Review UCN-233 starting the work	53 and the Safety Da	ta Sheet (SDS) of the chemi	cal/product prior to

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and		ustrial Hygiene WORK Environmental tection		CKAGE NUMBER:	SPECIFIC LOCATION:	N/A		
Activity	Sub-Activity	Hazard	Co	ntrol				
				Follow the assigne	ed work controls spec	cified in the SDS Evaluation	Form	
					mical and in accorda	oe in accordance with the co nnce with PL-SH-801768- At ncessing Facility		
Safety Watch	Process	Emergency				forming Safety Watch duties s required (e.g., Take Cover		
Safety Watch	Confined Space Watch	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,				
	(Attendant)		exc	cavation).				
				orkers assigned as a C F-CP-205.	Confined Space Watc	hes must wear orange vests	s in accordance with	
Environmental Conditions (Heat & Cold Stress)	Heat Stress Communications	Heat Stress	hea cau	at-related occupationa	I illnesses and injurie ke precautions to pre	loss of fluids, fatigue, and o es may occur. Be alert to cor event it. Check with your ESo or humid conditions.	nditions that could	
			Hea	at stress can be reduc	ced by taking the follo	owing precautions:		
			•	Drink plenty of coo	ol water			
			you	Follow a work-and ur supervisor	-rest regime develop	ed by the ES&H representa	tive in coordination with	
			follo	Make sure you unoowing:	derstand the signs ar	nd symptoms of heat stress,	which include the	
				Heat cramps - painfu eating	l muscle cramps cau	sed by a loss of body salt th	rough excessive	



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Activity	Sub-Activity	Hazard		Control		-			
				sweat heavily the victim' clumsy, irritable, or upse when they are exhibiting exercise good judgment Heat stroke - the dea	s skin will be cool and t. Victims of heat exha- obvious symptoms, b adliest of all heat stres	ling system is not working permoist and the victim will sent austion may tell you that the ecause heat exhaustion afforms on the victim's beand the victim may complain	em tired, confused, ey are all right, even ects their ability to ody temperature will		
				dizziness. The victim will					
						st aid immediately. Know th ational Health Services loca			
				Heat stress comm	unications include:				
				nformation Sheet and S	afely Speaking). Supe	d, ES&H will post advisorie rvisors flow down this infor developing heat-related illn	mation and advice		
				o When a work/rest req radio announcements ar		H will communicate the wo	rk/rest regimen via		
						flow down of work/rest ann subcontractors are working	ouncements and for		
			,			ive minutes after the first or notified and have enough t			
			•	Work/rest regimens a	are mandatory. Cool-d	lown areas must be utilized	during the rest period.		
Environmental Conditions	Hot Weather Preparation	Heat Stress		When heat stress condit		pcoming activities, supervisg steps:	sion shall begin		



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Activity	Sub-Activity	Hazard	Control				
(Heat & Cold Stress)				blishing coolin ment a work/re		cles, shade structures, cool	rooms) for areas that
			· Setti	ing up air-movi	ing equipment (e.g., f	ans, air-conditioners)	
			· Prep	paring other ma	aterials and equipmer	nt, as necessary	
				fing workers or self-determina		s, symptoms, and work con	trols, encouraging the
			· Begi	inning the eval	uation of potential he	at-related conditions/tasks	
			· Iden	tifying preventa	ative measures in da	ily and weekly planning mee	etings
			· Brief	fing supervisor	s on acclimatization		
Environmental Conditions	Cold Weather Preparation	Cold Stress	Cold stress the followin		nia, can occur at any	time of the year. To preven	t cold stress, observe
(Heat & Cold Stress)					ayers. Protect the fee rt and are the hardes	t, hands, head, and face. Th t to keep warm	nese parts of the body
			· Keep	p dry. Feet are	especially susceptib	le to frostbite and should be	kept dry
					. If you become fatigue and calories during b	ued, your body will lose its a preaks	ability to retain heat. Be
			· Worl		person. Use the bude	dy system, and look out for	the symptoms of cold



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Activity	Sub-Activity	Hazard		Control					
				The first symptoms of hyvictim may also have sliwithout accompanying hoheeks, ears, fingers, and followed by numbness a	c out for. The symptoms of pothermia are uncontrollable irred speech, memory laps ypothermia. The most vulned toes. Symptoms include and change in skin color toge and requires immediate	ole shivering and the s es, and drowsiness. Fr erable parts of the boo coldness and tingling white or grayish-yellow	ensation of cold. The rostbite can occur dy are the nose, in the affected part,		
				When cold stress condit	ions are expected in the up	ocoming monthly activity	ties, supervisors shall:		
				· Begin holding discussions regarding the implications of cold stress conditions					
					garding the signs and sym of Cold Exposure), the fact to prevent cold stress				
				Be aware of work potentially affected work	conditions (e.g., weather foreign	precast) and the physic	cal condition of		
					1768-A007, <i>Cold Stress C</i> temperatures 20 degrees F		ce, when project		
Environmental Conditions (Heat & Cold Stress)	Work/Rest Cycle	Cold Stress			e drops to -15°F (providing sist in the implementation o				
Respiratory	Respirator	Improper use of		The process used during	g issuance of respirators fro	om the issue point is a	s follows:		
Protection	Issuance	Respiratory Prof	tection		an shaven for tight-fitting fa r will meet requirements fo				
					e a current respirator qualif rear a respirator (make, mo				



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Activity	Sub-Activity	Hazard	I	Control		'			
				· User checks the p	plastic bag containing t	the respirator to ensure it is	sealed		
				· User verifies the o	correct make, model, a	and size of the respirator ha	s been issued by the		
						ed by the respirator issuer t piration date has not been e			
			User completes and signs the UCN-23309, <i>UPF Air Purifying Respirator Issuing</i> , at the time of initial issuance of a respirator						
						cartridges, a storage bag, a sters on the respirator, if app			
Respiratory Protection	Respirator Inspections	Improper use of Respiratory Protection				onal Safety and Health Adm urer's recommendations pri			
				The user inspects the fo	llowing items before d	onning respirator:			
				· Tightness of conn	ection				
				· Condition of face-	piece				
				· Cleanliness of fac	e-piece/visor				
				· Head straps					
				· Valve and connec	ting tube				
				· Cartridge/canister	-				
				· Elastic parts (for p	oliability)				
				· Respirator functio	n				
Respiratory Protection	Respirator Seal Checks	Improper use of Respiratory Prot		The Respirator User sharecommendations prior t		al check procedure or manu	ufacturer's		
				The following are the pro	ocedures identified by	OSHA:			



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Activity	Sub-Activity	Hazard	С	ontrol		·			
						re seal check on tight-fitting e hazardous atmosphere, ι			
			pa		ing the inlet seal on th	anister(s), cartridge(s), or fi e canister(s) or by squeezir			
			0	Inhale gently and ho	old breath for ten secor	nds			
				A satisfactory fit is a to face-piece is detect		ce collapses slightly and no	inward leakage of air		
						e seal check on tight-fitting the hazardous atmosphere			
			0	Close exhalation val	ve or breathing tube, o	or both, then exhale gently			
			o of			dup of positive pressure is goveen the sealing surface an			
			O \$6	If outward leakage is quence until a satisfa	s detected, reposition t	he face seal and/or straps a ained	and repeat this		
Respiratory	General Use	Improper use of		e Respirator User Re	quirements during gen	eral use are as follows:			
Protection	Requirements	Respiratory Prof				tors (e.g., head straps), but nge parts from other respira			
			·	Users don respira	tor in clean areas				
			·	Users shall not re	move their respirator v	vhile in a hazardous atmos _l	ohere		



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Activity	Sub-Activity	Hazard	Co	ntrol					
			pre		e the work area to was ation associated with r	h face and respirator face pi espirator use	ece as necessary to		
			de			phere immediately if they sn if breathing difficulty occurs	nell, taste, or otherwise		
			pla ke tas	pirators when the re ce them back in the ot in job boxes, in sh k). If using for longe	spirators are not being bag they came in) and aded areas, or returne r than one shift, then re	thift, users are to store and p worn. The respirators are to lout of the elements, includi d to a drop off location, if no espirator shall be cleaned af erature-controlled area)	be kept clean (e.g., ng direct sunlight (e.g., longer required for		
			ca	Users are respon tridges/canisters us		following the change-out sc	hedule for		
			•	Users' filter/cher	nical cartridge change	out schedule is provided in t	he JHA		
			me		e supervisor and/or Inc I shall leave the work a	lustrial Hygiene after experion Frea immediately	encing respirator		
Respiratory Protection	Voluntary Respirator Use	Improper use of Respiratory Pro				use shall be provided the in al/Issue for Voluntary Use	formation contained in		
Respiratory	Respirator	Improper use of		respirator malfuncti	ons at any time during	the shift:			
Protection	Malfunction	Respiratory Pro	ection .	Immediately leav	e the area				
				Report the malfu	nction to the superviso	or and to BNI-IH and BNI RR	PA		
Respiratory Protection	Respirator Cleaning and	Improper use of Respiratory Pro		spirator users are re hem, including the f		cleaning and proper storage	e of respirators issued		
	Sanitation			Thoroughly inspe	ect the respirator for da	mage and replace as neede	ed		
				Store the clean r	espirator in a storage b	pag and keep separate from	used P100 filters		



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Activity	Sub-Activity	Hazard	1	Control		<u> </u>			
Working with Materials	Methods of Compliance	Inhalation of Particulates (Silica)		· For tasks perform to minimize the accumu		sed areas, provide a means ne dust	s of exhaust as needed		
Containing Respirable Crystalline				· For tasks performed using wet methods, apply water at flow rates sufficient release of visible dust					
Silica (RCS)				cab or booth is maintain mechanisms that work properly, is under positi intake air that is filtered	ned as free as practica properly, has gaskets a ve pressure maintaine through a filter that is mum Efficiency Report	e an enclosed cab or booth, ble from settled dust, has do and seals that are in good co d through continuous delive 95% efficient in the range bo ing Value rating of 16 or bet	oor seals and closing ondition and working ry of fresh air, has etween 0.3 and 10.0		
				use of engineering conf	rols and associated we	es not apply as indicated in a ork practice controls shall be res to respirable silica dust.			
Working with	Work Practice	Inhalation of		Typical work practice co	ontrols include the follo	owing:			
Materials Containing Respirable	Controls	Particulates (Sili	ica)	· Inspect and main exposures	tain controls to preven	t or fix malfunctions that co	uld result in increased		
Crystalline				· Confirm that noz	zles spray water at the	point of dust generation for	wet method controls		
Silica (RCS)				· Confirm that hose	es are not kinked on a	tool used with a dust collect	tor		
				· Moisten crystallir	ne silica dust before sw	reeping, shoveling, or vacuu	ıming		
				NOTE : Material must b generation	e continuously and tho	roughly wetted at all times v	with no visible dust		
				· Schedule work se	that tasks that involve	e high exposures are perfor	med when no other		
				applicable project perso	onnel are in the area				



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Activity	Sub-Activity	Hazard		Control		-			
				to limit not only the num silica but also the levels	nber of applicable projesto which applicable parable sections of UPF-0	shall be used to control per ect personnel exposed to res roject personnel are expose CP-318, Respirator Use and	spirable crystalline d		
Working with Materials Containing Respirable Crystalline Silica (RCS)	Housekeeping	Inhalation of Particulates (Sili	ca)	Compressed air of in conjunction with a vecompressed air. Worke (HEPA) filter or other ap	cleaning of surfaces of entilation system that e ers shall use a ventilation pproved method to cle dry brushing is prohibit connel exposure to silica	r clothing is not allowed unle ffectively captures the dust of on system with a high-efficie an surfaces or clothing if neo ted where such activity coul a. Use wet sweeping or show	cloud created by the ncy particulate air cessary d contribute to		
			-	· Concrete slurry (e.g., from dust control	methods or excess water from	ods or excess water from concrete		
					concrete washout bins	from work areas by wet vacuuming or other similar methods and crete washout bins, containers or other locations to prevent on work surfaces			
Working with	Concrete Prep.	Flying Particles		Reference ML-SI	H-801768-A002, UPF	Eye and Face Protection Lis	t		
Materials Containing Respirable Crystalline Silica (RCS)		Inhalation of Particulates (Sili	ca)	protection requirements performed using wet me	s specified for the equi ethods, apply water at ng local exhaust ventila	eering controls, work practic pment/tasks in ML-SH-8017 sufficient flow rates determi ation, use the tool and any at	68-A010. For tasks ned by Industrial		
		Environmental V	Vaste	to minimize the accumι	ulation of visible airbori	osed areas, provide a means ne dust. If a respirator is req with P100/HEPA cartridges :	uired per Table 2, then		



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				filters, etc.) at a minimul	m wear a half-face res	e of the HEPA vacuums (i.e., pirator (APF 10). Handle pa erial accumulated on the sur	rts and components of		
				· Barricade and Sig	gnage:				
						ed danger signs or tags arou protect adjacent personnel	und the activity that		
				o Transfer silica dust contained by HEPA vacuum or other removal processes to identified "Special Waste" staging area for disposal (posted area next to the BNI concrete washout area)					
						nethods should be collected the BNI concrete wash-out a			
Confined Space Entry	General Requirements	Engulfment/Entr	apment	 Never enter a cor entry evaluation or perm 		ou are trained and authorized d	d to do so, and an		
(Life Critical Activity)		Hazardous Atmo	osphere	· Never enter a cor	nfined space unless at	mospheric testing has been	performed		
,,		Limited Access/	Egress	· Never enter a cor	nfined space without a	n approved permit			
					not enter without an e	n attendant at the entrance. effective way to communicate			
						nited to, sewers, tunnels, un ressels, bins, boilers, and du			
				· These spaces shappace is.	are common characte	ristics that help us understar	nd what a confined		
				· Characteristics of	a confined space incl	ude the following:			
				o it is large enough for	r a worker or workers	to enter			



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Activity	Sub-Activity	Hazard		Control		1				
				o it has limited means o	of entry and exit					
				o it is not designed for μ form of hazard	people to enter and wo	rk in on a regular basis, a	nd it can contain some			
			Some hazards that can be present in confined spaces are oxygen deficiency, fl or explosive gases, toxic gases, slips and falls, and electrical and mechanical hazards ES&H for assistance and evaluation of confined spaces on the construction site							
				· IF a suspect space classification was conduc		cannot confirm that a conf nter the space	ined space			
				Contact supervisio	n to determine if the sp	pace was evaluated and c	lassified			
				· IF supervision can	not provide a confirmat	ion, THEN request that E	S&H classify the space			
				Do not enter any confined Space Entry Ev		contacting ES&H and com	npleting UCN-23273,			
Orbital Sanding on	General Requirements	Ingestion		Employ good person eating, or smoking	onal hygiene technique	es such as washing your h	ands before drinking,			
Coated Metals		Inhalation of Particulates				ment with HEPA filtration ing Respirator (APF 10) w	-			
						nnot be met, install dange tings removal activity to ac				
Removal of Fireproofing	Cementitious Fireproofing (via non-powered tools)	Environmental \			r bags and seal with zi	or filings by appropriate mo p tie, duct tape, or knots a ca containing waste)				
	10015)	Inhalation		o Wet the cementitious	fireproofing with water	to reduce the generation	of dust			



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Activity	Sub-Activity	Hazard	I	Control		-			
Removal of Fireproofing	Intumescent Fireproofing (via powered tools)	Environmental V	Vaste		ear bags and seal with	or filings by appropriate me zip tie, duct tape, or knots a			
		Inhalation		intumescent fireproof of heat application. The	oatings shall be strippe area of heat application	removed for the purposes d back a distance of four (4 on means the surface area t ace temperature may be ap) inches from the area hat the flame or arc		
				· A minimum of a l	nalf-face Air Purifying F	Respirator (APF 10) with a F	HEPA/P 100 filter is		
				· P100 Particulate	filters need to be repla	ced when:			
				o The user has difficure sulting from particle b		oly or notices an increase of	f breathing resistance		
				o The filter becomes	visibly dirty				
				o The filter is physically damaged					
				Or at a minimum of every 30 days inclusive of the above requirements.					
Vibration Producing Equipment	General Requirements	Hand/Arm Vibra	tion	Do not exceed the trigger-time limits listed in ML-SH-801768-A008, <i>Power Tools Hand-Arm Vibration Levels</i> . Note that these limits are cumulative over the course of a work shift. Contact IH if you are using several different power tools continuously within the work shift					
and Activities				· Take breaks from rotate with a co-worker	n the source of the vibr	ation every hour – perform	a different task or		
				· Check tools before using them to Ensure they have been properly maintain repaired to avoid increased vibration caused by faults or general wear			maintained and		
				· Avoid over-gripp	ing or forcing a tool or v	work-piece more than is ned	cessary		



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				· Encourage good blood circulation by:					
				o Keeping warm and dry by dressing appropria	itely				
				· Massaging and exercising the fingers during	ng work breaks.				
Environmental	Spill Prevention	Unwanted		· Maintain best management practices for s	pill prevention, such as th	ne following:			
Protection Practices and	and Control	Environmental Ir	mpact	o Store hazardous materials away from drainages, streams, and wetlands					
Requirements				o Provide weather protection and secondary co	ontainment as necessary				
				o Ensure spill kits are stocked and available on	n site				
				· Take the following actions if a minor (hydra	aulic, fuel) spill occurs:				
				o Shut down the equipment					
				o Isolate the spill and prevent the spilled fluid fr	rom entering into drains o	or waterways			
				o Apply absorbent material and remove or conf	tainerize the contaminate	d soil			
				· Take the following actions if a major or em	ergency spill occurs:				
				o Evacuate as necessary or as directed by emo	ergency services personr	nel			
				o Notify your supervisor and call OC at (865) 574-7172. The OC will dispatch the Spill Response Coordinator or Fire Department as necessary					
				· If safe to do so, then contain the spill to pro	event it from spreading.				
Environmental Protection Practices and	Erosion and Sediment Control	Unwanted Environmental Ir	mpact	· Install erosion and sediment controls prior controls throughout the work. Controls may be te replaced at the end of the shift					
Requirements				Report any damaged or nonfunctioning controls to your supervisor					



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Activity	Sub-Activity	Hazard	l	Control		-			
Environmental Protection Practices and Requirements	Unexpected Conditions and Sensitive Area Protection	Unwanted Environmental In	mpact	regulations applicable t substances and wastes understand environmer	I must be knowledgeable of their work tasks, including a Review work packages at a requirements for a specific	ng rules and regulations and other work control do ecific work task	relating to hazardous ocuments to		
				supervisor and/or ES&I	any of the following durino I representative:	g the course of your work	k, stop and notity your		
				o Artifacts (archeolog	ical or production related)				
				o Chemically (smelly, shiny, or sticky) or radiologically contaminated soils					
				o Buried drums, pipes, tanks, and other debris					
					nclude wetlands, riparian ogical sites, greenfield site				
				· Review applicable construction work in or	e environmental practices near a sensitive area:	and regulations before	starting or performing		
				o Ensure the area ha competent person	s been assessed for comp	oliance and cleared for w	ork to start by a		
				o Ensure boundary lin	nits are established and u	ınderstood			
				o Sensitive areas and	buffer zones are often m	arked on the Project foot	tprint.		
Environmental	Disposal of	Improper Dispos	al of	General waste segreg	ation guidelines for any	coatings or fireproofing	ng		
Protection Practices and Requirements	Waste	Waste		· Brushes and nap application.	s (applicators) are to be p	out in dedicated 6ml plas	tic bag for specific		
				· Liners are to be put in a dedicated 6ml plastic bag.					
				NOTE : E100 Liners may be put into bags with mixed material at the end of shift for disposal (current process).					
				· All excess paint i	s to be poured back into t	he original paint can and	l sealed.		



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			· Any rag	s used ne	ed to be put in a dedi	cated 6ml plastic bag for spe	ecific applications.			
			· All bag	are to be	clear bags.					
			· Any ca	 Any cans containing thinner are not to be placed in plastic bag. Material stored in metal buckets to be sealed with lid, picked up by Distribs (tech support and taken to waste connex for sorting/labeling. 						
			All bags shall be labeled with name, contents, date, and time. Must be legible.o Use of Tag or "tape flag" acceptable.							
			· All contents in bags should weight no more the 35 lbs.							
			· Materia metal recyclin		st be verified (by RCF	RA trained person) prior to st	acking or disposing in			
			· Ensure out with rag.	all contair	ners are free of any re	sidual liquid or moisture by	visual inspection. Clean			
			· Ensure etc.)	all waste	streams are segregat	ed into dedicated bags. (I.e.	PPE, applicators, rags,			
			o All PPE (i back for the s			rator cartridges) should be p	placed in dedicated			
			· All emp	loyees ha	ve the right to STOP	work when unsure.				
						pect bag or drum expanding nication chart) for proper not				
			o In case of	emergen	cy contact the Y-12 O	perations Center: 865-574-7	172.			
			KEY NOTES:							
			· Do not	put empty	paint cans into the ba	ags with the poured-up paint				
			· Do not	stack bucl	kets or cans inside ea	ch other.				



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Activity	Sub-Activity	Hazard	Contro	I						
			· D	Do not place Part	A and Part B in the s	ame bag.				
			· С	Do not bag any bu	uckets or liners with a	ıny "residual" paint or thinner	rs.			
			· С	Do not open bagged waste once it has been sealed.						
				 THE GUIDELINE ABOVE ARE TO BE USED FOR THE FOLLOWING PAINTS (an materials not listed in this should be added to next revision as applicable) o Phenoline 1205 (all colors) 						
			o Phe							
			o Phe	enoline 187						
			o Acro	olon 218 hs						
			o Mad	cropoxy 646						
			o Car	boguard 60						
			o Car	boguard 890						
			o Car	boguard 501						
			o Car	bomas□c 94						
			o Car	bothane 133						
			o Car	bomas□c 15						
				emolag 3000						
			o Phe	enoline 1205 (all d	colors)					
			o Car	bozinc 859						
				o Diamond Hard						
			o Pel	Seal						
			o Lox	on Caulking						



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JHA TITLE:		trial Hygiene Environmental ction	WORK PACKAGE NUMBER: N/A SPECIFIC N/A LOCATION:						
Activity	Sub-Activity	Hazard	Control						
			o E100						
			o Primer 67 LV						
			o Polymer Alloy 2	2000 LE					
			o Scratch Coat 2	00					
			o Sealer 200WB						
			Latex/Acrylic Mate	erials					
			· Flush materi	al out of pump with the us	e of water.				
			· Spent materi	al and water rinsate to be	pumped into buckets sealed	l.			
			· All bags/bucl	kets shall be labeled with	name, contents, date, and tir	ne. Must be legible.			
			· Use of Tag of	or "tape flag" acceptable.					
			Guidelines applicate to next revision as		gs (any materials not listed in	this should be added			
			· Pro Industria	l Waterbased Alkyd					
			· Urethane Pro	omar 200					
			· Promar 200	VOC					
			· Loxon - Acry	lic					
			· Solo -Acrylic						
			· Devguard 43	306 - Alkyd Seal Grip - Acr	rylic				
			· Latex Perma	crete 4-603 - Acrylic					
			· Speedhide -	Acrylic Latex Sealer 200V	VB -				
			· Urethane						
			Solvent Based Ma	terials					



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		strial Hygiene Environmental ection	WORK PACKAG	GE NUMBER:	N/A	SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Control	I			
			· F	lush material out o	of pump with approv	ved thinners	
			o Insid	de Building Only			
			§ Thinn	ner 229			
			§ Thinn	ner 236 E			
			o Outs	side Building			
			§ Aceto	one			
			§ Carbo	oline Thinner #2			
			· S	Spent material shou	ıld be pumped out	and poured into the original o	containers and sealed.
			· т	hinner rinsate sho	uld be pumped into	buckets and sealed.	
			· A	All bags/buckets sh	all be labeled with	name, contents, date, and tin	ne. Must be legible.
			o Use	of Tag or "tape fla	g" acceptable.		
			KEY NO	OTES:			
			· D	Oo not put empty pa	aint cans into the b	ags with the poured-up paint.	
			· D	o not stack bucke	s or cans inside ea	ach other.	
			· D	o not place Part A	and Part B in the	same bag.	
			· D	o not place any bu	ickets or liners with	any "residual" paint or thinn	ers inside of a bag.
				nes applicable to the revision as application as application as applications.		s (any materials not listed in	this should be added
			· C	Carbozinc 859			
			. Р	Phenoline 1205			
			· т	hermolag 3000 SF)		
			Cemen	titious Fireproofi	ng (gypsum based	<u>d)</u>	



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JHA TITLE:		Environmental	WORK PACKAGE NUMBER: N/A SPECIFIC N/A LOCATION:				
Activity	Sub-Activity	Hazard	Control				
			· Southwest 5GP is mixed with water.				
			 Spent material is to be accumulated in dumpsters and then taken to the basin to be dumped. 	e Concrete washout			
			Removal (dry) cementitious is to be bagged and taken to the waste column and sorted.	nnex to be labeled			
			· All contents in bags should weigh no more than 35 lbs				
			Silica				
			· Bag applicable material in 6ml plastic bag.				
			· Label bag as Silica.				
			· Place labeled and closed bag within designated silica waste area.				
			Aerosol Cans				
			· Check Tool Crib flammable cabinets to make sure no other cans could obtaining a new can.	be used before			
			Once aerosol cans have been finished, place empty can within designated cabinet.	ated flammable			
			NOTE: Ensure waste has been properly labeled.				
			If other wastes are generated and not listed in this document, contact BNI En requirements on disposal.	vironmental for			
Compressed Breathing Air	Compressed Breathing Air	Hazardous atmosp	The compressed breathing air quality shall meet or exceed the required breathing air as specified in Compressed Gas Association, CGA G-7.1-2011, Specification for Air.				



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JHA TITLE:		trial Hygiene nvironmental ction	WORK	WORK PACKAGE NUMBER: N/A SPECIFIC N/A LOCATION:					
Activity	Sub-Activity	Hazard	I	Control		1			
		Inhalation of Dus	st	Compressed gaseous air u 10°F (5°C) lower than the lowest the respirator or air supply syster incompatible with other fittings us breathing air or other gas.	ambient temperatu n may be exposed	ure to which any regul . Airline quick disconn	ator or control valve on ect fittings must be		
		Hazardous Subs	stances	The breathing air system components shall be inspected and maintained in accordance with the manufacturer's recommendations. Inspectors of breathing air systems shall be trained in accordance with the system component manufacturer's recommendations and frequency. Records of inspection and maintenance shall be kept. Carbon monoxide monitors, if used, shall be calibrated and maintained according to the manufacturer's recommendations.					
				Breathing air systems that powered by internal combustion alarm detectible by the wearers. immediately until the source of co	engines, shall have If the monitor alarn	e a continuous carbon ns, the compressor sh	monoxide monitor with		
				The intake of compressors prevent entry of contaminated air		umps shall be located	and monitored to		
				To ensure a continued hig Grade D air, and to account for a sample shall be taken at air supp the system. Air quality sampling periodically (e.g., quarterly), as d overhaul, modifications or extens reuse, if the compressor has bee e) whenever inadequate air quali	iny distribution syst bly points of attachr frequency shall be: lirected by the prog sive repairs of any pen idle for a long pe	tem contaminant input ment where the respira a) prior to initial use b gram administrator c) fo part of the breathing a	a, a representative ator wearer connects to b) performed ollowing major ir system d) prior to		
				· Compressed breathing air	shall be tested as	specified in Table 3			



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JHA TITLE:	and l	Industrial Hygiene and Environmental Protection		WORK PACKAGE NUMBER: N/A			SPECIFIC LOCATION:	N/A
Activity	Sub-Activity	Hazard	Con	ntrol				
			Tabl	e 3 - Air Sampling for	Compressed Breatl	hing Air		
						Compresso	or Type	
				Type/Sample	Oil Lubricated	Non-Oil Lubric	ated Combustion Engine Powered	
				Water Vapor	X	Х	X	
				СО	X	_	X	
				Condensed Hydrocarbon	х	_	X	
				CO ₂	_	_	X	
				Odor	X	X	X	
Ergonomic Hazard	Various Activities	Musculoskeletal Disorder Injury		ntact ES&H/IH (Radors are encountere		to evaluate yοι	ır work activity if any of tl	he following risk
Activities			Risk	k Factors				
			ofte that pulli	Exerting excesting heavy loads, m	rmed, the level of evelopment of Messive force. Examanually pouring a same or similar	of required efforms of required efforms include: Imples include materials, or not tasks repetite.	pends on work positions rt and how long the task lifting heavy objects or phaintaining control of equitively. Performing the sended period of time.	eople, pushing or uipment or tools.



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Activity	Sub-Activity	Hazard		Control			
			_	Using positions that place shoulder height, kneeling, twisting the torso while lift Localized pressur	stress on the body squatting, leaning ing.	ring in the same posture for y, such as prolonged or repeti over a counter, using a knife art. Pressing the body or part sing the hand as a hammer.	tive reaching above with wrists bent, or
				increase the potential for	MSDs to develop. I	rith any one of the above risk For example, many of the ope roduct or in a cold environme	erations in meatpackin
				Hand-arm vibration can d more difficult to control. H arms resulting in increase portable grinders, chainsa	amage small capilla and-arm vibration r d force exertion to ws) in much the sa	aries that supply nutrients and may cause a worker to lose fe control hand-powered tools (arme way gloves limit feeling in digreatly increase the force w	d can make hand tools eeling in the hands and e.g., hammer drills, n the hands. The
				Combined exposum MSDs than does exposure		factors. May place workers a ctor.	at a higher risk for



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JHA TITLE:	Industrial Hygiene and Environmental Protection	WORK PACKAGE NUI	MBER: N/A	SPECIFIC LOCATION:	N/A
Ensure a	new corresponding CFN-1251, l	JPF Construction Attenda	nce Sheet, is signed and inserted	in the CWP to docum	ent JHA briefing.
PREPARER:		Anton R. Panev	Am PmV Printed Name/Signature		11-22-23
APPROVAL:			<u>-</u>		
ES&H:		Kieran S. Kelly	Printed Name/Signature		11-22-23 Date
SITE MANAGER: (COI-CM-801768-A	A087)	Matthew W. Schmid	Printed Name/Signature		11-22-23 Date