Task Hazard Analysis

JOB/TASK

Torch Cutting Metal

DATE 5/20/13

Work Area

PG&E Kern Power Plant Demolition

Permits(s) Required and attached XES INO

Major Steps of Task:	Recognized/Unanticipated Hazards:	Safe Plan:	Tools <i>Required</i> to do the job safely:
Preparation of area & materials for torch cutting.	Combustibles (i.e. wood, paper, debris, flammable liquids, brush, residual flammable liquids in pipes or vessels, UST/AST verified gas free)	Burn permit must be secured prior to torch cutting operations. Area must be cleared of combustibles (i.e. brush, paper, wood, flammable liquids, etc.). Fire extinguisher inspected for compliance and in place for torch cutting operations. Vessels and Pipes inspected, monitored for LEL/UEL, residual liquids removed.	-Safety briefing prior to activities. -Burn/Torch cutting permit in place -Fire Watch assigned -Crew briefed on hazards of lead -SM 022 Lead -Attachment H Lead compliance Plan
Sizing steel with oxy/propane torches	Hot, molten steel; Fumes from burning; Exposure to lead from torch fumes and chipped paint, and; Heavy steel capable of pinching and crushing. Heat stress.	Barricade work areas, post lead hazard, use buddy system, leave a way out, where appropriate PPE for cutting metal painted with lead paint. Monitor employee exposure to lead fumes. Wash hands before eating or smoking. Review symptoms for heat stress.	Hard hat, full face respirator with North P-100 HEPA filters, fire Proof disposable coveralls, leather gloves, leather over-the-ankle boots. Half face respirator with North P-100 HEPA filters for steel coated with lead based paint.
Storage of Oxy/Propane tanks	Broken valves, high pressure release, fire or explosion	Secure all bottles from falling. Store Oxygen and propane upright a minimum distance of 20 feet from each other. Remove all regulators from bottles and replace with storage caps when bottles are not in use. Label empty bottles.	Rope or chain for securing bottles. Do not use wire. Wrenches for attaching or removing regulators.
Break areas and disposal of Lead Contaminated PPE	Cross contamination.	No eating, drinking or smoking in areas where torch operations are taking place. Remove all PPE and place disposable items in a sealable and secure container. Reusable PPE should be stored on the jobsite, not in personal vehicle. Respirators will be kept in sealable bags when not in use. Clean respirators daily with alcohol wipe and wash once a week in a soap solution.	Sealable container, waste labels, hand and face washing station, clean area for eating, drinking, smoking.

Adjacent Work/Processes and/or co-	occup	ancy	🛛 Yes	🗌 No	\boxtimes	Other workers adjacent, above,	below
Notified them of our presence		Coordina	ated with a	djacent wo	rk sı	pervisor/customer operator	☑ Can work safely

TEAM MEMBERS SIGNATURES

The signature of the Supervisor certifies the completion of the Hazard Assessment and Safe Plan of Action by the crew.

_____ Date _____

Instructions: 1. Write the name of the job or task in the space provided. 2. Conduct a walk -through survey of work area. 3. Write the steps of the task in a safe sequence. 4. List all possible hazards involved in each step as well as reaction to failure. 5. In the Safe Plan column, provide the corrective actions that will be taken to keep the hazard from becoming an accident or injury. 6. In Tools column list tools needed to do the job, additional safety equipment, etc. 7. Have each team member that helped develop and will use this STA sign in the spaces provided at the bottom. 8. Review the STA at the end of the task for improvements. (NOTE: THE WORK SHALL STOP IF CONDITIONS CHANGE, JOB CHANGES, OR DEFICIENCY IN PLAN IS NOTED.) Review checklist on page 3

			Safe Plan c	of Action Checklist (Check the items that apply)				
_	Permits/Clearances		Hazards	Safe Plan				
	Utility Clearance Obtained		Tazarus					
	Confined Space		Overhead Utilities	Power de-energization required Wire watcher requ	ired			
	Critical Lift	_		Required clearance distance = <u>10</u> ft.				
	Hoisting & Rigging Safety Review		Crane or other	Signalman assigned Tag lines in use Area around crane barricaded				
	Boom Assembly and Breakdown		Lifting Equipment	Lifting equipment inspected Personnel protected from overhead load				
	Boom Proximity		Underground Utilities	Reviewed as-builts Subsurface surveys Received dig permit				
	Concrete Structure Penetration			Required clearance distance =ft.				
	Soil Excavation		Electrical	Lock Out/Tag Out/Try Out?	energized			
	Pneumatic Test			Reviewed electrical safety procedures				
3	Hot Work		Excavations	Proper sloping/shoring				
	Scaffolding Erection Plan			Barricades provided Access/egress provided Protection from accumulated water				
	Steel Erection/Decking/Flooring/ Grating Checklist		Fire Hazard	Permit 🛛 Fire Extinguishers				
	Request for Shutdown			Unnecessary flammable material removed Additional info below				
			Vehicular Traffic or	Traffic Barricades Cones Signs				
	Radiation Work Permit for Visitors		Heavy Equipment	Communication with equipment operator				
	Required PPE	\boxtimes	Noise > 85 dB	Hearing protection is required: 🛛 Ear plugs 🗋 Ear muffs 🔅 Both 🗋 Additional info below				
4	Hard Hat		Hand & Dower Tables	Inspect general condition GFCI in use				
	Ear Plugs/Ear Muffs		Hand & Power Tools:	Reviewed safety requirements in operators manual(s)				
	Eye Protection			List sharp tools, material, equipment				
1	Safety Glasses		Hand Hazards					
1	Face Shield			PPE gloves, etc. Protected sharp edges as necessary				
Ī	Chemical Goggles			Reviewed proper lifting tech.				
ī	Welding Hood	\boxtimes	Manual Lifting	Hand protection required Back support belts				
_	Hand Protection			Inspect general condition before use Inspect dent upper to the second secon				
1	Cut Resistant Gloves	\boxtimes	Ladders	Ladder tied off Proper angle and placement Reviewed ladder safety				
ব	Welders Gloves	_		Inspect general condition before use Tags in place Properly secured				
1	Nitrile Gloves		Scaffolds	Toe boards used Footings adequate Activity of the second s				
f		_		Inspect for trip hazards Hazards marked Material property stored				
1	Rubber Gloves	\boxtimes	Slips, Trips, Falls	Extension cords properly secured Work zone free of debris Additional information below				
Ť	Electrical Insulated Gloves			List potential pinch points:				
1	Arm Sleeves	\boxtimes	Pinch Points	Tractor and objects				
_	Foot Protection		Pinch Points	Working near operating equipment 🛛 Hand/Body positioning				
7								
<u>q</u>	Rubber Boots		Working w/Chemicals	The task creates potential for direct contact with hazardous chemicals.				
	Rubber Boots Rubber Boot Covers			Reviewed MSDS hazards and precautions				
-				Have identified proper PPE (respirators, clothing, gloves, etc.				
	Dielectric Footwear	\boxtimes	Heat Stress Potential	Heat stress monitoring (>85° F; 29.4° C) I Liquids available Cool down periods				
_	Respiratory Protection	<u> </u>		Sun Screen Reviewed Heat Stress symptoms				
			Cold Stress Potential	Proper clothing (i.e., gloves, coat, coveralls)				
4	Full Face Air Purifying Respirator w/ Hepa Filter	_		Reviewed Cold Stress symptoms Warm up periods Additional information below				
	Supplied Air Respirator	\boxtimes	Environmental	Air emissions Water discharge Hazardous wastes Other wastes				
	SCBA			Pollution prevention Waste minimization				
	Emergency Escape Respirator		Natural or Site Hazards	Weather X Terrain X Adjacent operations or processes X Biological H	nazards			
_	Special Clothing			Animals/reptiles/insects hazards				
4	Tyvek® See notation Non-Flammable		Overhead Work	Z Caution barricade tape required Danger barricade tape required				
	Poly Coated Tyvek®			Rigid railing required Covers over opening Warning signs required				
]	NOMEX®			Additional Information				
	Rain Suit							
	Fall Protection							
3	Harness	Fa	Il protection reauire	ed when working 4 feet above ground.				
٦	Double Lanyard Required		· · · · · · · · · · · · · · · · · · ·					