

JOB HAZARD ANALYSIS WORKSHEET

Project Name: _____		Site: _____	
Project Number: _____		Bldg / Rm #: _____	
General Contractor: _____		Prepared By: _____	
Contractor(s): _____		Date: _____	
Craft(s): _____	Scheduled Start Date: _____	Reviewed By: _____	
Date: _____			
Briefly Describe Task: Adding slip flange to accommodate 3" NG line change			
Required PPE: Hard hat, eye protection (safety glasses), work boots, long pants & shirt with at least 4" sleeves.			
Supplemental PPE: Full face welding helmet with filter lens when welding, welding jacket, welding gloves, full face shield when grinding or wire wheeling.			
Required Permits: Hot Work Permit			
General Comments: Prior to starting the job, foremen will inspect the work area to ensure all fire hazards have been removed. Only authorized and qualified workers can operate welding equipment. If any work is performed on a system which has potential release of energy, LOTO procedures will be followed. Any defective equipment is to be removed and reported to the site supervisor to replace. Therma will provide a fire watch. A copy of this JHA will be kept at the work site available for review upon request. This JHA will be reviewed by all workers prior to start of activities. A natural gas monitor will be used at the exhaust point to verify no NG exists in the gas line after the line is purged with compressed air.			
WORK OPERATION	POTENTIAL ACCIDENTS OR HAZARDS	SAFE JOB ACTIONS NEEDED	
Set up work area	Back injury from lifting materials	Use recommended lifting techniques Lift with legs Use 2 workers if bulky or load exceed 50 pounds Use mechanical means if required	
	Impact to facility and/or other trades	Obtain Hot Work Permit from GCI and GNE Review work permit and safe work practices with workers prior to beginning task	
Owner / Client to verify valves supplying NG to appliances are closed or disconnected	Possible equipment damage from compressed air	Ensure valves are closed prior to applying purge	
	Compressed air flowing into occupied areas of	Ensure valves are closed	

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	the building	
Shut down gas at valve.	Control of valve	Lock and tag out valve at branch source
Attach compressed air purge line to purge port on 3" line located as far upstream as possible		
Open the gas line exhaust to atmosphere	Hazardous accumulation of gas. Odor alarming occupants	Ensure the presence of natural ventilation in order to disperse gas. Provide mechanical ventilation if required.
Purge gas line w/ compressed air	Residual gas remaining in line	Verify purge with NG monitor at exhaust point Use NG monitor and verify the absence of NG
Cut pipe with grinder and/or porta band	Electric shock, cuts, sparks	Inspect equipment before use Use required PPE Use GFCI Have fire extinguisher nearby
Fit up and install new flange to piping		
Operate welder	Inhalation hazard from fumes	Perform welding in a well ventilated area or provide local exhaust ventilation with flex duct and blower The welder operator and other workers directly exposed to weld fumes and will take precautions as seen fit for the individuals comfort level to preform work Any worker required to use a respirator will have an annual medical evaluation and be fit tested and trained by a qualified person
	Eye injury, dust, or flashes	Wear full face welding helmet Wear safety glasses or goggles Use weld screens to prevent flash burns to other workers or pedestrians
	Fire from heat, sparks or slag	Have suitable fire extinguisher on hand Remove all combustible from welding area
	Electric shock from Improper grounding	Verify grounding before operating equipment Pre-inspect all welding leads, connections Repair or replace damaged or defective equipment Only operator welder on dry surfaces. Do not stand on wet surfaces.
	Burn from hot objects	Ensure proper selection of PPE (welding leather and gloves)

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		Allow for cooling before touching the work material
Remove LOTO at valve		
Advise facilities to open gas valve		
Verify 100% NG at the purge discharge point w/ NG meter		
Close/secure purge points		
Test for leaks on new piping		
Turn system over to Genentech/JLL/GCI		
Client/owner to coordinate the startup of gas-fed appliances in the building		

This JHA is to be reviewed and signed by all personnel at the jobsite. It is to be kept at each work site for the duration of this project.

JHA Title:	
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