

Opening Process Piping & Equipment





Field Reference Tool

Exclusions

Equipment exempt from this Procedure includes drilling, completion, flowback, workover, fresh water lines, atmospheric storage tanks (only when tank gauging from the tank hatch), and routine maintenance and operation of equipment that is designed to be periodically opened (e.g. sumps, strainers, dump valves, and pig launchers and receivers).

Hazards of Opening Process Piping and Equipment

Assess risks associated with the hazards of opening process piping and equipment prior to the start of the work activity using a **Job Safety Analysis (JSA)** or **Pre-Job Safety Meeting (PJSM)**.

	<ul style="list-style-type: none"> Physical hazards due to release of pressurized material, exposure to corrosive materials, or temperature extremes Dropped objects from unsecured piping
	<ul style="list-style-type: none"> Fires or explosion due to hydrocarbons, other flammable materials, or the introduction of oxygen into closed hydrocarbon process systems Exothermic reactions due to pyrophoric scale
	<ul style="list-style-type: none"> Toxicity due to benzene, methanol, hydrogen sulfide or other chemicals Asphyxiation due to nitrogen or inert gases used for purging or displacement of oxygen Dizziness or nausea due to exposure to hydrocarbons
	<ul style="list-style-type: none"> Environmental impacts due to spills or venting

Breaking Containment



Do **NOT** use plastic buckets or containers



Use metal buckets **WITHOUT** plastic handles or liners



A bonding cable with clamps is the preferred method of bonding the dispensing vessel to the receiving vessel or container



If cutting pipe, ensure a “cold cut” technique is used for the initial cut so that it does not pose the risk of ignition when hydrocarbon equipment and piping systems are to be cut. Additional cuts are cold cuts until it is verified that there are no remaining hydrocarbons present.

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