

SAFE JOB PROCEDURE

April 18, 2018

PURGING WITH NITROGEN

PURPOSE/APPLICATION

Nitrogen purging is an industry standard technique for the replacement of a hazardous or undesirable atmosphere with an inert dry atmosphere. The two most common methods of purging are displacement and dilution. The geometry of the process system determines which method is used. For simple systems, displacement purging is usually more effective in terms of time and cost but, for more complex systems, dilution purging is used.

PPE • Safety glasses

Safety boots

Gloves

Hard hats

TRAINING

TOOLS/EQUIPMENT • Gas monitor

#	Job Steps	Hazards	Control Measures
1	Mobilize and rig in N2 truck	Congestion	Stage truck and piping in strategic locations
			 Signs and caution tape to warn other crews and workers
			Only those involved in work to be in area
			 Truck to be grounded, wheel chalks, positive air shut off
2	Pressure Test N2 Piping Lines	High pressure gas, working with Nitrogen	 Never try to fix a leak while still under pressure
			 Ensure no leaks – check all connections
			Discuss MSDS with crew
			 Be aware of possible N2 burns and oxygen deficiencies
			All proper PPE at all times
3	Purging Piping Systems	Liquid N2	All required valves open – determine flow from P&ID's
			 Wear Gloves
4	Determine N2 purge complete	Verify purge sufficient	 Check high point vents to prove Zero LEL's



SAFE JOB PROCEDURE

SJP-04

April 18, 2018

PURGING WITH NITROGEN

Additional Precautions:

REFERENCE/REGULATIONS

Developed by:	1.	Angie Anton	2.	Garry Lane	Date:	Dec. 18/08	
	3.		4.				
Revised by:	1.	Ryan Obleman	2.		Date:	April 18/18	