SAFE JOB PROCEDURE **SJP-26**

January 28, 2010 **Running Inhibitors Through Lines**

PURPOSE/APPLICATION

PPE

- Face shield/Safety Glasses
- Rain Suit
- Rubber Gloves
- Hard Hat
- Safety Glasses
- FRC Coveralls
- Personal Monitors

TRAINING

- WHIMIS/1st Aid/H2S/CSTS/TDG

TOOLS/EQUIPMENT

- Air Compressor/Pigs/Wrenches/Radios

#	Job Steps	Hazards	Control Measures
1	Go over Material Safety Data Sheet/ Tailgate/ Safe Work Procedure and Hazard Assessments.	▪ Incorrect or ▪ Inadequate Information.	▪ Ensure all involved have access to information documentation. ▪ All appropriate information and hazards will be listed on all permits prior to starting work.
2	Wear proper PPE	▪ Inhibitor/Gas from pipeline.	▪ PPE must be worn at all times. ▪ MSDS know which inhibitor you are running.
3	Prove line is de-pressured.	▪ Line is still energized.	▪ Open pig trap/Open vents and drains. ▪ Inspect equipment.

#	Job Steps	Hazards	Control Measures
4	Open closure, insert medium density pig, close closure	▪ Pinch points. ▪ Line pressurized. ▪ Sludge in line from before. ▪ Flammable gases.	▪ Wear all PPE. ▪ Eyes and mind on task. ▪ Open vents and drains. ▪ Inspect the pig senders and catchers before each use, and ensure they are in good working condition. ▪ Stay clear of closure when opening.(stand to the side) ▪ Always contain and control all releases of pressure and product. ▪ Ensure pig is in pipeline correctly. ▪ Use drip trays as needed. ▪ Continuous monitor.
5	Hook up compressor, and shoot pig approximately for 30 seconds depending on how much fluid you need for line.	▪ Compressed air. ▪ Equipment failure. ▪ Pig stuck.	▪ Wear all PPE. ▪ Ensure all connections are secure.(Whip Checks/Cotter pins) ▪ Ensure the proper pressure rating on equipment. ▪ Inspect hoses and couplers. ▪ Use proper pig senders and catchers. ▪ Ensure all equipment being used is appropriate for the task and was designed for the intended use.
6	Close valve on riser		▪ Eyes and mind on task.
7	Insert diesel inhibitor through 2” valve between top 45 degree and valve on pig catcher	▪ Line pressurized. ▪ Spill diesel/inhibitor.	▪ Open vents/drains ▪ Drip tray available. ▪ Ensure you have a large enough funnel to pump diesel/inhibitor.

#	Job Steps	Hazards	Control Measures
8	Open closure and put inhibitor pig in. close closure	▪ Pinch points ▪ Line pressurized. ▪ Flammable Gases.	▪ Eyes and mind on the task. ▪ Open vents/drains. ▪ Ensure pig is in pipeline correctly. ▪ Continuous Monitor.
9	Have vacuum truck and some sort of communication on the other end of the line. (2-way radio is preferred method)	▪ Radios not working. ▪ Miss-communication. ▪ High pressures. ▪ Equipment failure.	▪ Test radios and keep them charged. If malfunctioning then replace. ▪ Speak clearly and double check if unsure. ▪ Ensure hoses and equipment are in good working condition. ▪ Inspect equipment before use.
10	Once both parties give the go ahead, compressor can start blowing pigs and inhibitor down the line.	▪ Compressed Air. ▪ Equipment failure. ▪ Communication. ▪ Ice plugs in existing pipeline.	▪ Wear all PPE. ▪ Ensure all connections are secure and of the proper pressure rating. ▪ Inspect hoses/couplers and use whip checks/cotter pins to secure hoses in case of failure. ▪ Only required and qualified personal in the work area. ▪ Ensure all equipment being used is appropriate for the task and was designed for the intended use. ▪ Make sure lines of communication are open at all times during the inhibitor run. ▪ May be necessary to run a methanol batch in front of first pig if you think you may encounter an ice plug.

#	Job Steps	Hazards	Control Measures
11	Once pigs reach other end, let the crew running the compressor know to shut compressor down, and start blowing down the line, through the vac-truck	▪ Lack of Communication. ▪ Line under pressure. ▪ Equipment Failure. ▪ Pig Stuck.	▪ Ensure good radio contact and keep all lines of communication open during bleed down. ▪ Eyes and Mind on task. ▪ Make sure to bleed from pig catcher side so pigs don't get sucked back. ▪ Proper PPE at all times. ▪ Ensure all connections are secure and of the proper pressure rating. ▪ Only required and qualified personal in the work area. ▪ Ensure vents are open on Vac truck when blowing down. ▪ Ensure all equipment being used is appropriate for the task and was designed for the intended use. ▪ Inspect hoses/couplers and use whip checks/cotter pins to secure hoses in case of failure. ▪ Once bled down open vent at pig closure end to ensure that it is blown down at both ends. ▪ If pig is stuck try blowing the pig backwards, or load another medium density and blow till pig becomes dislodged.

#	Job Steps	Hazards	Control Measures
12	Once pressure is out of line, open receiving closure cautiously and have a drip tray underneath of closure in case of excess fluid. Have vacuum truck suck up any fluid left-over.	▪ Flammable Gases ▪ Spills ▪ Pinch Points ▪ Line under pressure	▪ Continuous Monitor ▪ Drip trays as needed. ▪ Always dispose of wastes in a timely manner and in an appropriate manner. ▪ Wear all appropriate PPE. ▪ Always control and contain all releases of pressure and product ▪ Eyes and mind on task. ▪ Keep vents/drains open.

Additional Precautions: Please ensure that all MSDS are onsite and reviewed prior to job commencement. Follow PPE requirements as per MSDS.

REFERENCE/REGULATIONS

- Part 2 Hazard Assessment, Elimination and Control
- Part 29 WHIMIS.
- Part 18 PPE.
- Part 11 First Aid.
- Part 4 Chemical Hazards, Biological Hazards and Harmful Substances.

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