ANGI Compressor Energy Control Procedure (ECP)

General Information			
Location		**Asset Number(s)/ Equipment ID(s)**	
Manufacturer or Equipment Name	ANGI Compressor Units		

Hazardous Energy Identification				
☐ Chemical	☒ Electrical	☐ Gravitational potential	☒ Hydraulic potential	☐ Kinetic
☒ Mechanical	☒ Pneumatic potential	☐ Radiation	☒ Thermal	

Personal Protective Equipment Required (Beyond Basic PPE)

Hard Hat, Gloves, Eye Protection, Hearing Protection and Safety Toe Boots, High Vis Vest.

ONLY TRAINED AND AUTHORIZED PERSONNEL SHALL CONDUCT LOCKOUT/TAGOUT.

Shutdown Overview (Isolation Overview)

This document outlines the proper procedures to Depressurize and Isolate Energy to ensure the safety of personnel and equipment. It is essential that each step is followed systematically to prevent accidental release of energy and minimize risk during maintenance or emergency situations. All team members must be trained and familiar with these procedures before performing any work involving the ANGI CNG Compressor Units

Depressurization and De-energization ECP for Service Instructions

1. Preparation & Safety

- Notify all affected personnel of the intended work and energy isolation.
- Review the system's operating status and ensure all maintenance is scheduled during safe conditions.
- Always Contact Chevron Call Center (877-872-3966) before starting work and when finishing work.
- Inspect the compressor for any damage before starting work.
- Never open a high voltage panel if natural gas is detectable in the atmosphere.
- Gather required PPE and verify all tools and LOTO devices are available.
- Complete the required Job Safety Analysis (JSA)
- Complete Chevron Start Work Check (SWC).

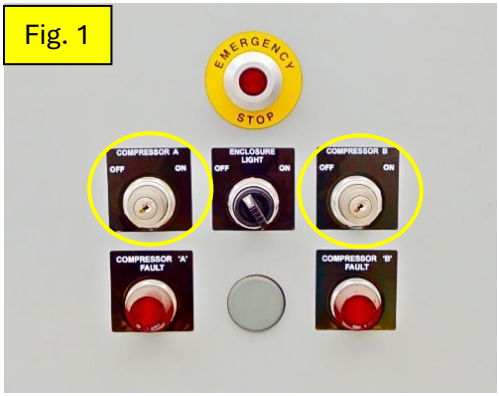
NOTE: Report any safety concerns to Chevron and the Supervisor that may have been found before, during, or after servicing the compressor or compressor components. STOP WORK. Wait for further instructions.

2. Shut Down the Compressor Unit

2.1 If in normal operation, wait for the compressor(s) to finish the run cycle and cool down.

2.2 Turn the key position to OFF on the panel. If the compressor is a Dual Compressor Unit turn both compressors to the OFF position. (Fig. 1)

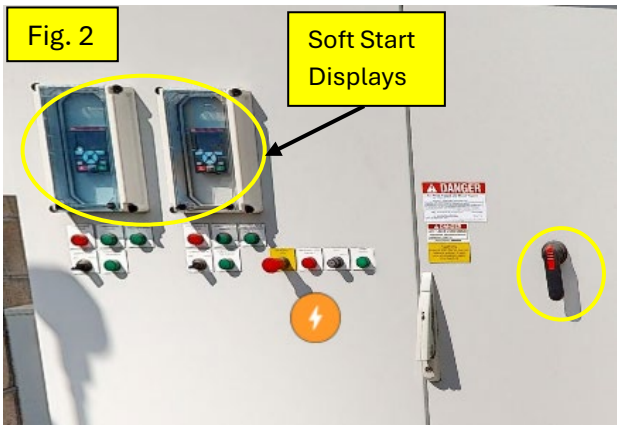
Fig. 1



3. Electrical Isolation

3.1 Switch off Main Power Breaker on the Motor Control Cabinet (MCC) (Fig. 2).

Fig. 2



3.2 Use Compressor HMI displays to confirm power is off.

3.3 Check the MCC front displays to confirm the soft starts are off.

3.4 Open the MCC.

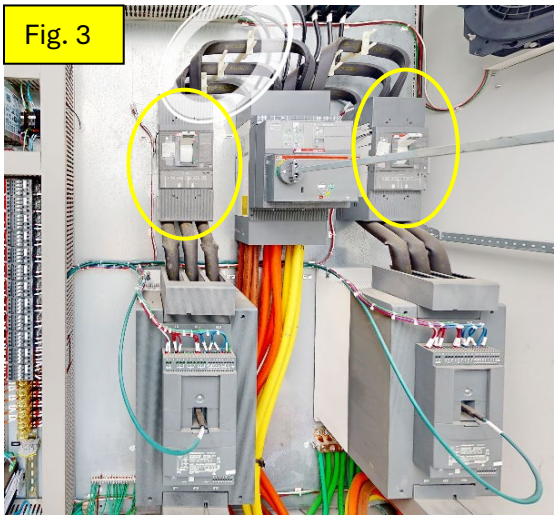
3.5 Verify zero voltage on main compressor breakers using a multimeter.

3.6 Locate the Compressor Main Breaker that needs to be de-energized.
(Ex. Comp 1 or Comp 2) (Fig. 3)

3.7 Switch the Compressor Main Breaker to the OFF position (Fig. 3).

3.8 Close the MCC Doors.

Fig. 3

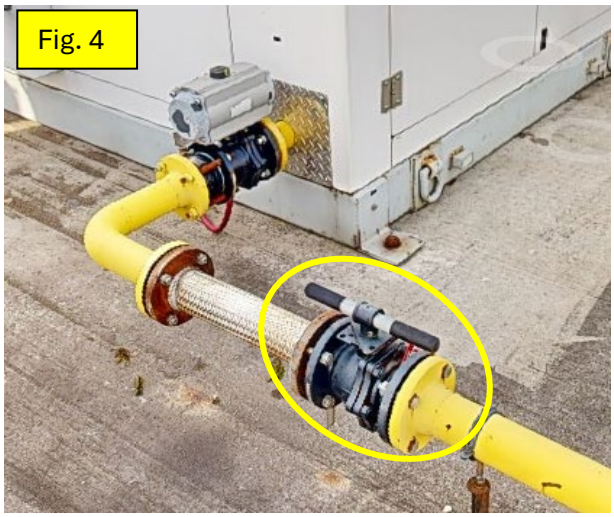


3.9 Turn ON power to the MCC.

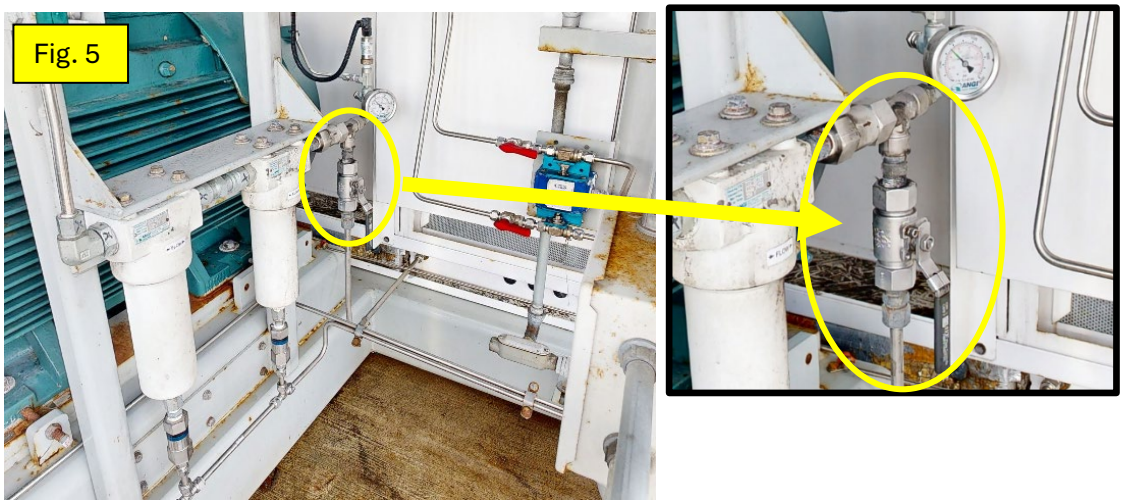
3.10 Lock the MCC Doors and secure a lockout tag on the door handle with the Name, Date, and Reason for the LOTO Tag.

4. Fuel/Gas Isolation

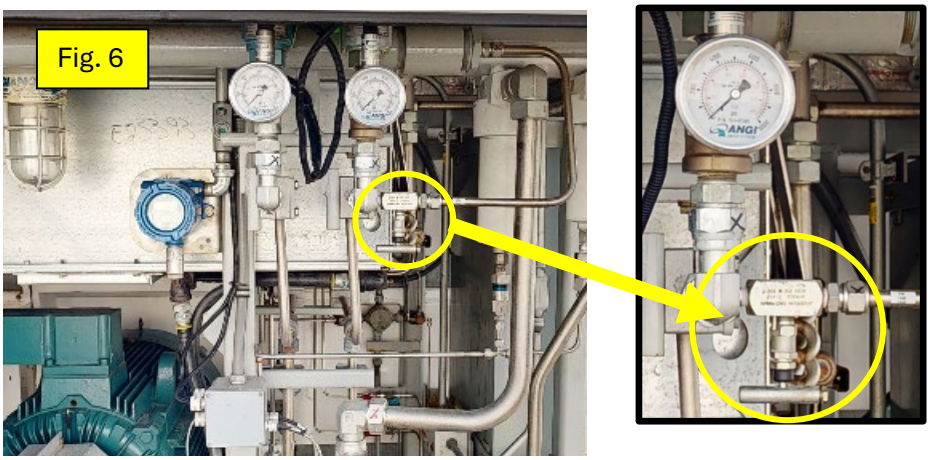
4.1 Close the Inlet Valve and apply LOTO (Fig. 4)



4.2 Locate and close and LOTO Final Discharge Valve on the inside or outside of the Compressor Skid. This will be labeled “Final Discharge” (Fig. 5).

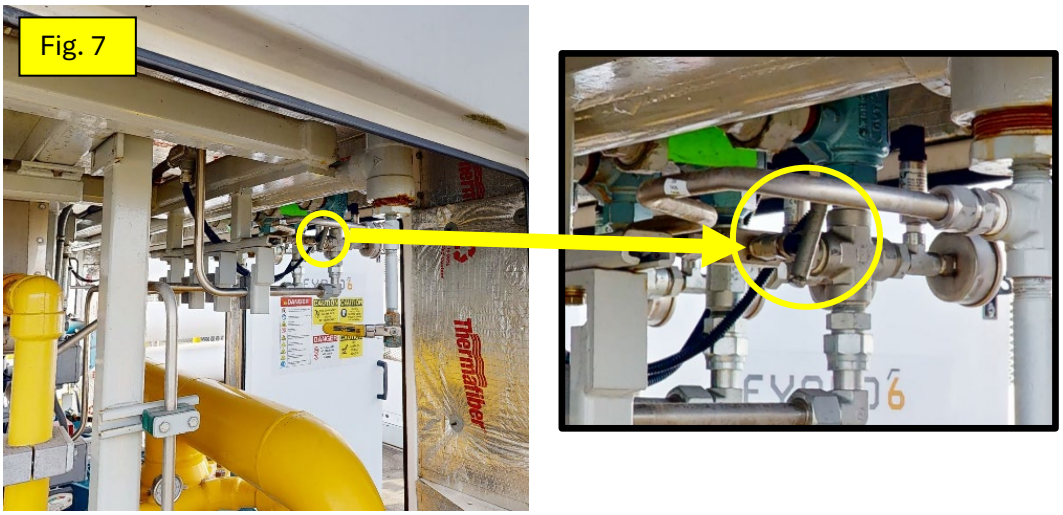


4.3 Slowly open counterclockwise Final Stage Blowdown Vent Valve located by the final stage PRV to depressurize all compressor stage pressures. (Fig. 6)



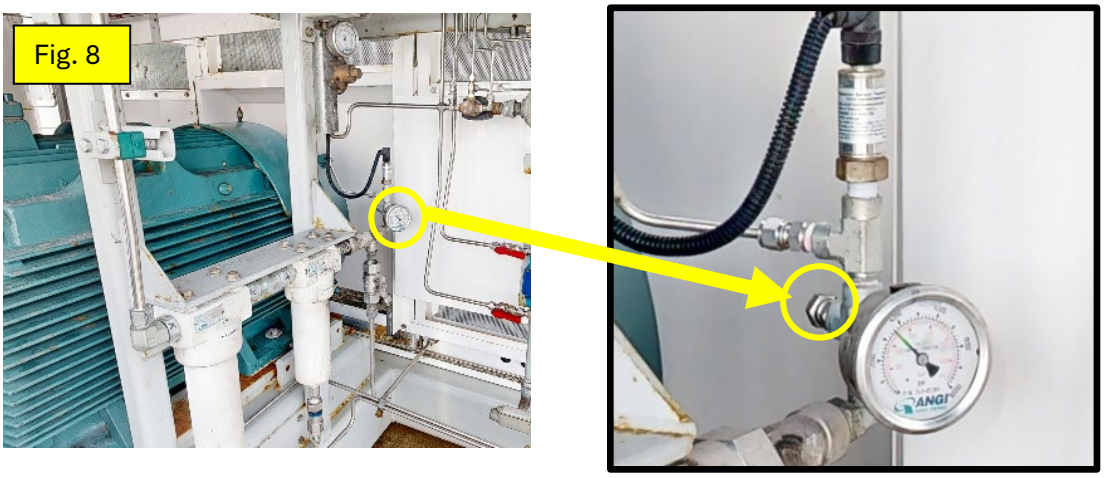
4.4 Slowly open Receiver Tank Blowdown Vent Valve located near receiver tank PRV to depressurize. (Fig. 7)

Fig. 7



4.5 For Natural Gas Pressure Actuator Compressor Units ONLY (skip this step for air pressure actuators): Using a 5/8-inch wrench, open the final discharge bleeder located near the final discharge isolation valve (see Fig. 5) to supply gas pressure to the actuator regulator (Fig. 8).

Fig. 8



5. Zero Energy Verification

5.1 Confirm Zero pressure on Inlet, Receiver Tank, Discharge gauges and Final Discharge actuator gauges, if applicable (see Fig.9 and Fig. 10).

5.2 Confirm zero pressure on the compressor HMI.

Fig. 9

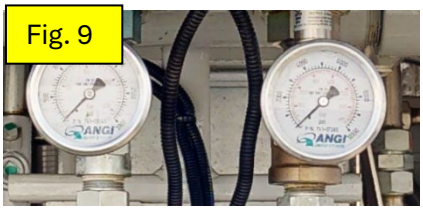


Fig. 10

6. Apply Lockout/Tagout Devices

6.1 Confirm LOTO tags are applied to:

- Electrical disconnects
- Gas valves
- Blowdown valves

7. Complete Start Work Check

7.1 Complete Start Work Check to confirm energy isolation controls are in place and document their verification (in person/video). *Required name of verifier*

8. Perform Maintenance or Inspection

8.1 Proceed only after full verification of isolation.

8.2 Maintain LOTO throughout work duration.

Re-energization and Re-pressurization (After Service)

9. Restore Energy (Post-Maintenance)

9.1 Inspect system for readiness.

9.2 Remove all tools and personnel from work area.

10. Gas Repressurizing Steps

Applicability:

- *Natural gas pressure actuator sites: perform 10.1 – 10.7*
- *Air pressure actuator sites: perform 10.1 and 10.3-10.7 (skip 10.2)*

10.1 Remove LOTO devices from the compressor.

10.2 For Natural Gas Pressure Actuator Compressor Units ONLY: Using a 5/8-inch wrench, close the final discharge bleeder located near the final discharge isolation valve (Fig. 8).

10.3 Open the Inlet Valve (Fig. 4).

10.4 Open Final Discharge Valve (Fig. 5). Use caution when opening due to high pressure on the other side of the valve.

10.5 Allow gas to flow through the system to purge the air through the final discharge blowdown vent and receiver tank blowdown vents.

10.6 Close Final Stage Discharge Blowdown Vent Valve (Fig. 6).

10.7 Close Receiver Tank Blowdown Vent Valve (Fig. 7).

11. Electrical Re-energization Steps

11.1 Remove LOTO from the MCC Main Breaker.

11.2 Switch the Main Breaker to the OFF position (Fig. 2).

11.3 Open the Motor Control Cabinet.

11.4 Identify the Compressor Main Breaker requiring re-energization and proceed to close the breaker (Fig. 3). (Ex. Comp 1 or Comp 2).

11.5 Close the MCC Doors.

11.6 Switch Main Breaker power ON (Fig. 2).

12. Start-up Procedures

12.1 Follow start-up procedures per manual.

12.2 Inspect for gas/oil leak.

12.3 Monitor unit for proper operating conditions.

Note: If any issues arise upon start-up such as a gas leak malfunctioning equipment press the ESD button and return to Section 2. Isolate Energy Sources to restart the process.

13. Notify Affected Personnel

- Contact Chevron Call Center (877-872-3966) to make them aware of the Station/Equipment status.
- Contact the Supervisor and Chevron Reliability Engineer for an equipment status update.
- Complete all paperwork pertaining to the work before leaving the station.

Version History and Approvals		
Date:	Name and Position:	Status:(Created/Approved/Annual Review*)
04/08/2026	Harlan Brodie (Reliability Engineer)	Created
04/13/2026	Brent Tesla (Renewables Project Manager)	Approved