



# Gilbarco Encore CNG Dispenser Energy Control Procedure (ECP)

General Information				
<b>Location</b>		<b>Asset Number(s)/ Equipment ID(s)</b>		
<b>Manufacturer or Equipment Name</b>	Gilbarco Encore CNG Dispenser ANGI NZ3 CNG Dispensers			
Hazardous Energy Identification				
<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Gravitational potential	<input type="checkbox"/> Hydraulic potential	<input type="checkbox"/> Kinetic
<input checked="" type="checkbox"/> Mechanical	<input checked="" type="checkbox"/> Pneumatic potential	<input type="checkbox"/> Radiation	<input type="checkbox"/> Thermal	
Personal Protective Equipment Required (Beyond Basic PPE)				
Hard Hat, Gloves, Eye Protection, Hearing Protection and Safety Toe Boots, High Vis Vest.				
<b>ONLY TRAINED AND AUTHORIZED PERSONNEL SHALL CONDUCT LOCKOUT/TAGOUT.</b>				
Shutdown Overview (Isolation Overview)				
<p>This Energy Control Procedure (ECP) outlines the standardized steps for safely de-energizing and depressurizing the Gilbarco Encore CNG and ANGI NZ3 CNG Dispensers to ensure a hazard-free environment during maintenance or servicing. The procedure emphasizes strict adherence to lockout/tagout protocols, electrical isolation, and controlled depressurization to mitigate risks associated with high-pressure gas and energized components. All personnel must follow these guidelines to maintain compliance with safety standards .</p>				

# Depressurization and De-energization ECP for Service Instructions

## 1. Preparation & Documentation

- Only trained, qualified, and certified specialists may perform work on the dispenser.
- Read and understand the entire manual.
- Notify 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 dispensers for any damage before starting work.
- Never open high voltage panel if hazardous gas is present.
- Gather required PPE and verify all tools and LOTO devices are available.
- Complete Chevron Start Work Check
- Always refer to Manufacturers Manual or call Gilbarco/ANGI Energy at **1(800) 934-5219** for assistance with troubleshooting.

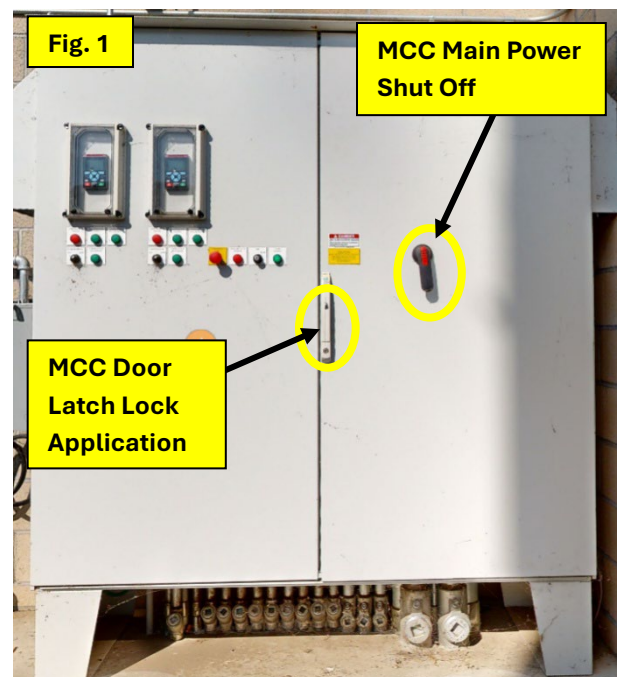
### Key Safety Reminders

- Never rely solely on console E-STOP, ALL STOP, or PUMP STOP for electrical isolation.
- Always depressurize before pneumatic maintenance.
- Use only genuine Gilbarco replacement parts.
- Follow all NFPA, OSHA, and local codes.

## 2. Electrical Isolation

- 2.1 Turn the main power shutoff located on the outside of the MCC door to the off position (Fig. 1)
- 2.2 Open the MCC door and locate and shut off the breaker for the dispenser that is being serviced. The dispenser breaker can be identified on the ANGI Job MCC Electrical Schematics.
- 2.3 Close the MCC Doors.
- 2.4 Turn ON power to the MCC.
- 2.5 Lock the MCC doors and secure a lockout tag on the door handle with the Name, Date, and Reason for the LOTO tag (Fig. 1).
- 2.6 Verify that power is off at the dispenser.

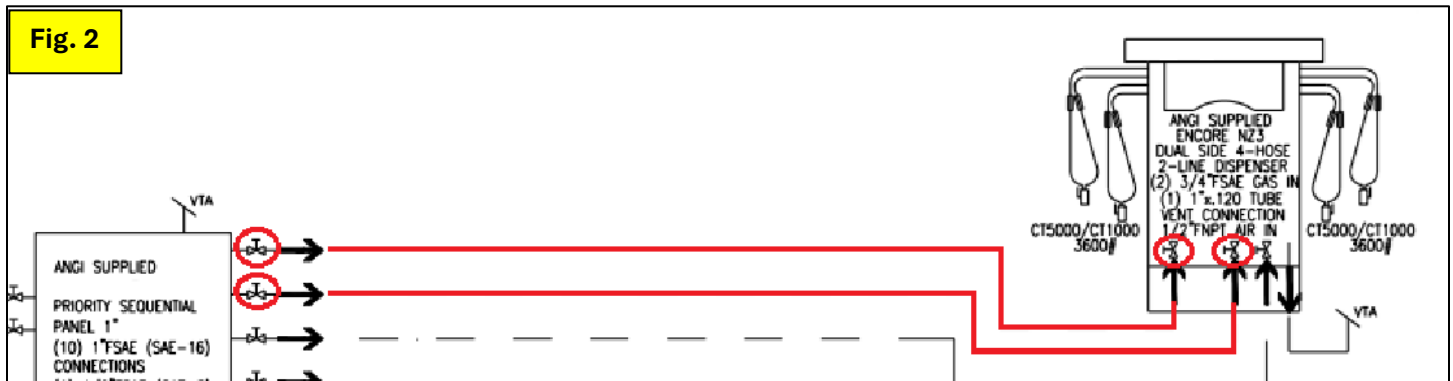
**NOTE: Ask your Chevron RE for assistance if the ANGI Job MCC Electrical Schematics are not available or call the ANGI Helpline at 800-934-5219 and provide the ANGI Job #**



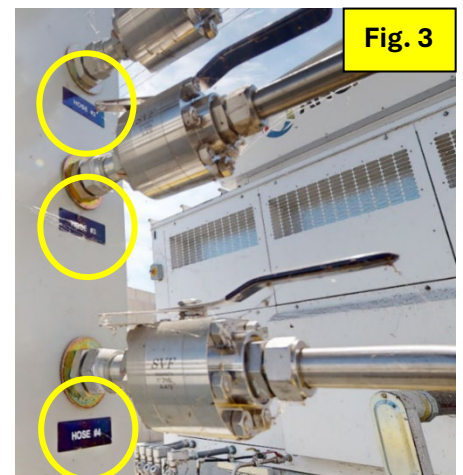
### 3. Isolating from the priority panel

#### NOTE:

- Complete Step 2 if work is required on the supply line between the Priority Panel and Dispenser. Fig. 2 represents the section that will be isolated.
- Skip Step 2 and move to Step 3 (Gas Isolation at Dispenser) if work is after the gas supply isolation valve that enters the dispenser.



- 3.1 At the priority panel, close the valves pertaining to the dispenser that is going to be serviced and apply LOTO (Fig. 3).
- 3.2 Open the bleed valves located in the lower cabinet of the dispenser to release pressure from the hose bleeder and the filter housing drain. Refer to (Fig. 5) and (Fig. 6) for additional guidance.

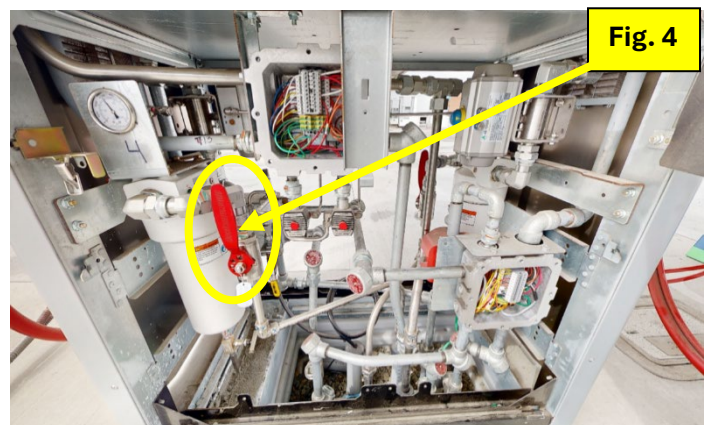


**NOTE: There may be multiple bleeder valves depending on the configuration of the dispenser.**

- 3.3 Lockout the gas supply isolation valve once all gas pressure has been depressurized from the dispenser to the priority panel. See (Fig. 4)

### 4. Gas Isolation at Dispenser

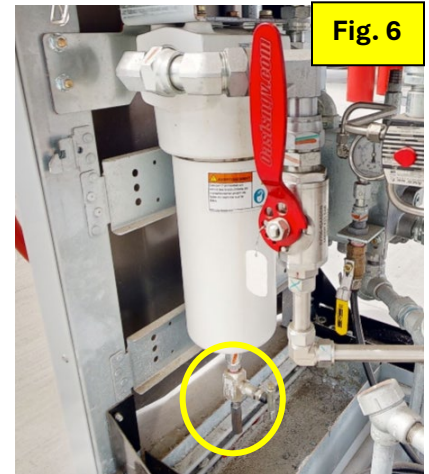
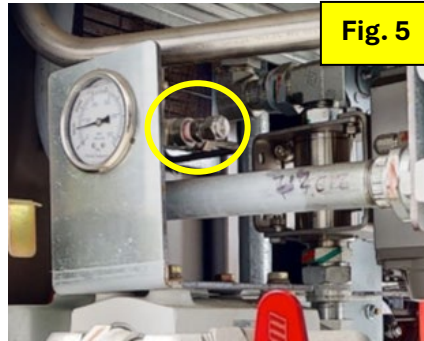
- 4.1 At the base of the dispenser, close ALL inlet gas isolation valve(s) and apply LOTO (Fig. 4).



## 5. Depressurize the System

- 5.1 On the sequencing block, filter housings, and near hose pressure gauges, open bleed valves to release pressure (Fig. 5).

**Note: There may be multiple bleeder valves depending on the configuration of the dispenser.**



- 5.2 Carefully open filter drain valves and collect any oil for proper disposal (Fig. 6).

**NOTE: There may be multiple bleeder valves for separate Filter Housings.**

- 5.3 Bleed out all gas from the filter housing until completely depleted.
- 5.4 Close manual isolation valves at dispenser hoses and apply LOTO (Fig. 7).

## 6. Verify Zero Energy State

- 6.1 Use a multimeter to confirm electrical power is disconnected at the dispenser.
- 6.2 Confirm all gas lines are depressurized and isolated.
- 6.3 Check for residual pressure before proceeding.



## 7. Apply Lockout/Tagout Devices

- 7.1 Attach lockout/tagout devices on isolation points.
- 7.2 Verify that all energy sources are locked out and tagged.

## Lock-Out/Tag-Out (LOTO) Table for CNG Dispenser Isolation Points

Isolation Point / Device	Action Required	Lock/Tag Location	Notes / Reference
Main Electrical Power for dispenser	Turn off at breaker/panel	MCC door	Confirm power is off with multimeter at the dispenser before proceeding
Priority Panel Isolation Valves	Close valve	At the priority panel	**only applicable for work before the isolation valve that enters the dispenser
Inlet Gas Isolation Valves at dispenser	Close all inlet valves	At base of dispenser	
Manual Hose Isolation Valve	Close valve	At each side of dispenser	

### 8. Complete Start Work Check

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

### 9. Perform Service/Maintenance

- 9.1 Only after confirming zero energy state, proceed with maintenance or service tasks.  
 9.2 For component replacement, inspection, or repair, follow all manufacturer instructions.

### Re-energization and Re-pressurization (After Service)

#### 10. Restore System to Service

- 10.1 Remove all tools and non-essential items from the work area.  
 10.2 Remove all lockout/tagout devices.  
 10.3 Close ALL breeder valves before applying gas pressure.  
 10.4 Gradually restore gas supply by opening isolation valves in sequence (low, mid, high pressure banks).  
 10.5 Restore electrical power to at the main circuit breaker and dispenser breaker.  
 10.6 Spray filter housing and connections with detergent/water solution and check for leaks.

**NOTE: If a leak is found DO NOT tighten connections under pressure. Return to Section 2 to depressurize and de-energize and make repairs on leaks**

- 10.7 Reinstall all panels and covers as directed.  
 10.8 Monitor system parameters (pressure, alarms) during normal operation.

#### 11. Emergency Procedures

- 11.1 In case of an emergency (fire, gas leak, collision), use the station Emergency Stop Button (ESD)  
 11.2 Evacuate the area and call emergency services (911).

## 12.Documentation

- 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.

## 13.References

**Gilbarco Encore Manuals can be found on Aetos in the files section named:**

Gilbarco Start-up & Service Manual MDE-5055A.pdf

Gilbarco Encore Installation, Operation, and Service Manual MDE-5051A .pdf

Gilbarco Encore Start-up-Service MDE-5055.pdf

- **Gilbarco MDE-5051A CNG Install Manual .pdf**
  - Important Safety Information: p. 2-1 to p. 2-4
  - Lockout/Tagout: p. 2-2
  - Depressurization: p. 11-1
  - Electrical Isolation: p. 9-1
  - Gas Isolation: p. 11-33, p. 11-34
  - Service/Maintenance: p. 11-1 to p. 11-36
  - Emergency Procedures: p. 2-3
  - Leak Testing: p. 11-35

Version History and Approvals			
Version	Date:	Name and Position:	Status:(Created/Approved/Annual Review*)
1.0	12/1/25	Harlan Brodie (Reliability Engineer)	Created
1.0	5/04/2026	Brent Tesla (Renewables Project Manager)	Approved