



Cobey Priority Valve Panel with Muphy Controller

Energy Control Procedure (ECP)

General Information			
Location		Asset Number(s)/ Equipment ID(s)	Priority Valve Panel, Compressor 1, Compressor 2. MCC 1, MCC 2
Manufacturer or Equipment Name	Cobey/Muphy Controller Priority Panel		
Hazardous Energy Identification			
<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Gravitational potential	<input type="checkbox"/> Hydraulic potential
<input checked="" type="checkbox"/> Mechanical	<input checked="" type="checkbox"/> Pneumatic potential	<input type="checkbox"/> Radiation	<input type="checkbox"/> Kinetic
			<input type="checkbox"/> Thermal
Personal Protective Equipment Required (Beyond Basic PPE)			
Hard Hat, Gloves, Eye Protection, Hearing Protection, Safety Toe Boots, and 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 Priority Valve Panel.			

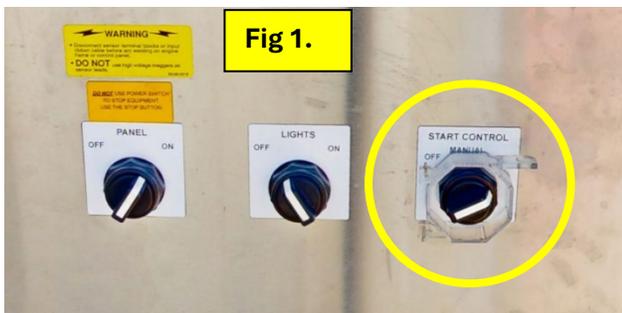
Depressurization and De-energization ECP for Service Instructions

1. Preparation & Safety

- Notify all affected personnel of the intended work and energy isolation.
- Notify your supervisor or Chevron Reliability Engineer before performing work on the Priority Valve Panel.
- Always Contact Chevron Call Center (**877-872-3966**) before starting work and when finishing work.
- Review the system's operating status and ensure all maintenance is scheduled during safe conditions.
- Inspect equipment for any damage before starting work.
- Wear protective clothing when working in and around equipment area.
- Never open high voltage panel if natural gas is detectable in the atmosphere.
- Gather required PPE and verify all tools and LOTO devices are available.
- Complete Chevron Start Work Check

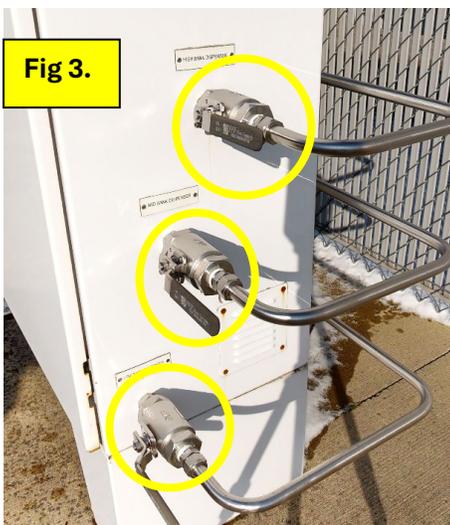
2. De-energizing and Depressurizing for Service

- 2.1 Turn the Compressor Start Control switch to the **OFF** position on all units (shown in **Fig 1**).
- 2.2 Close Final Stage Discharge Supply Valve going to the Priority Valve Panel located on the outside of the CNG Compressor Skid and use LOTO (shown in **Fig.2**).



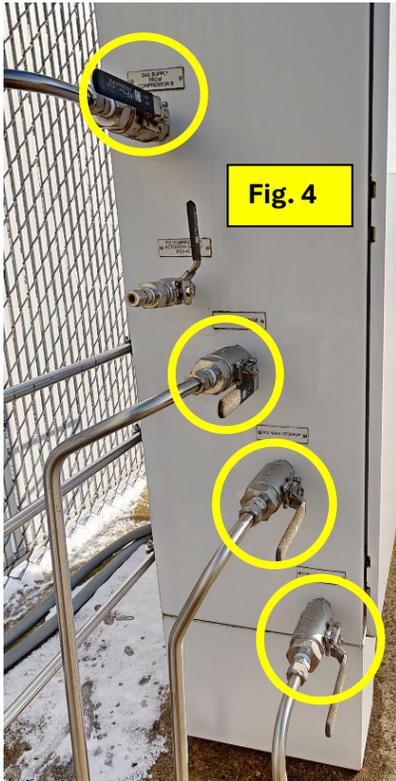
Priority Panel Dispenser Valves

- 2.3 Close and lock-out/tag-out High Bank, Mid Bank, and Low Bank Dispenser Valves (shown in **Fig.3**).



Priority Panel Storage & Compressor Gas Supply Valves

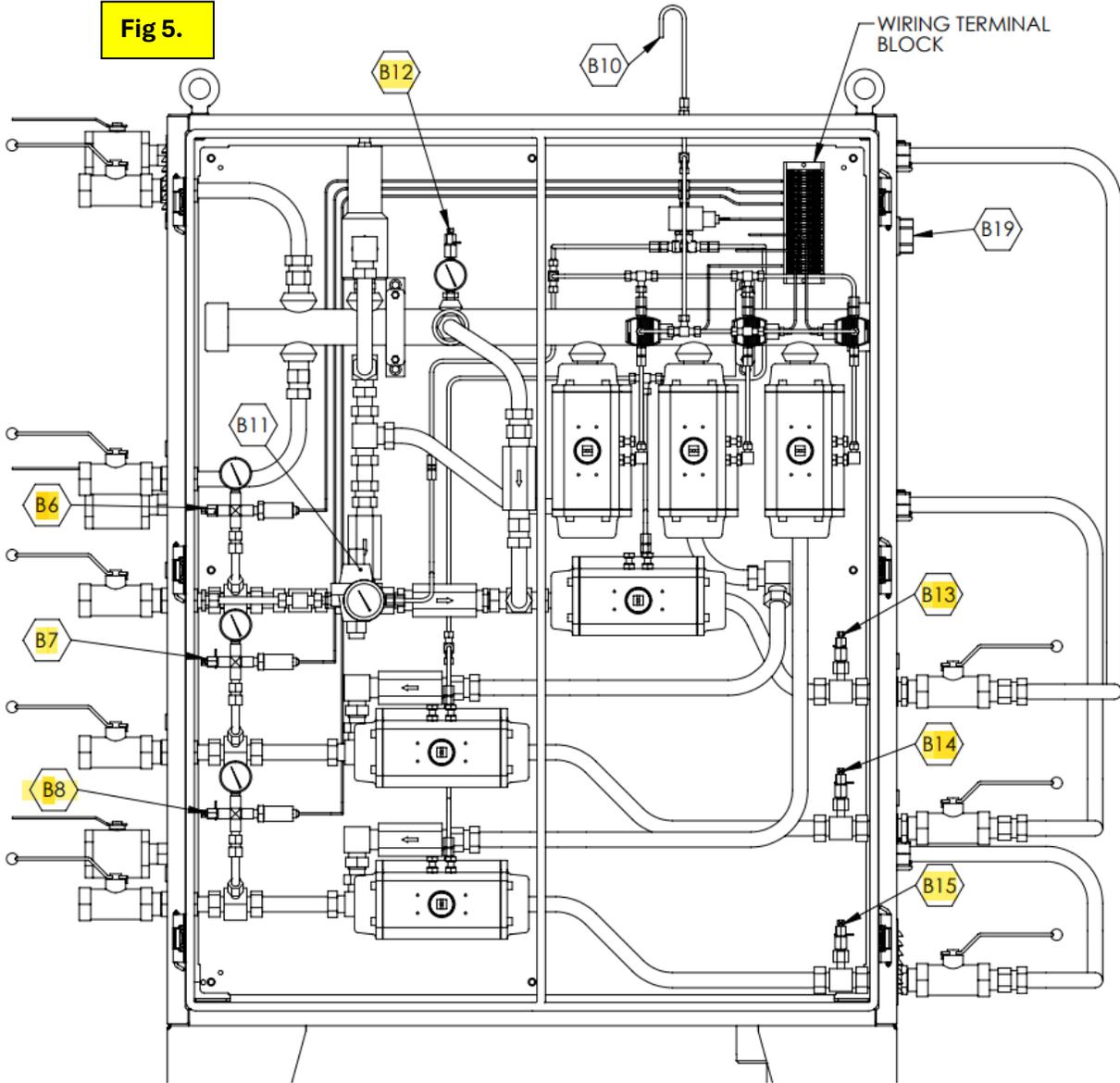
- 2.4 Close and lock-out/tag-out High Bank, Mid Bank, Low Bank Storage Valves and Gas Supply Valves for the Compressors (shown in **Fig. 4**).



Storage Vessel Ball Valves

- 2.5 Close **ALL** Storage Vessel Ball Valves and LOTO (shown in **Fig 4.1** and **Fig 4.2**).
- 2.6 Locate the Bleed Valves on the inside of the Priority Valve Panel highlighted in:
- **Fig 5.:** B6, B7, B8, B12, B13, B14, and B15, and
 - **Fig 6:** Circled in diagram
- 2.7 Use a 7/16 box wrench and slowly turn each valve counterclockwise to release gas pressure.

Fig 5.



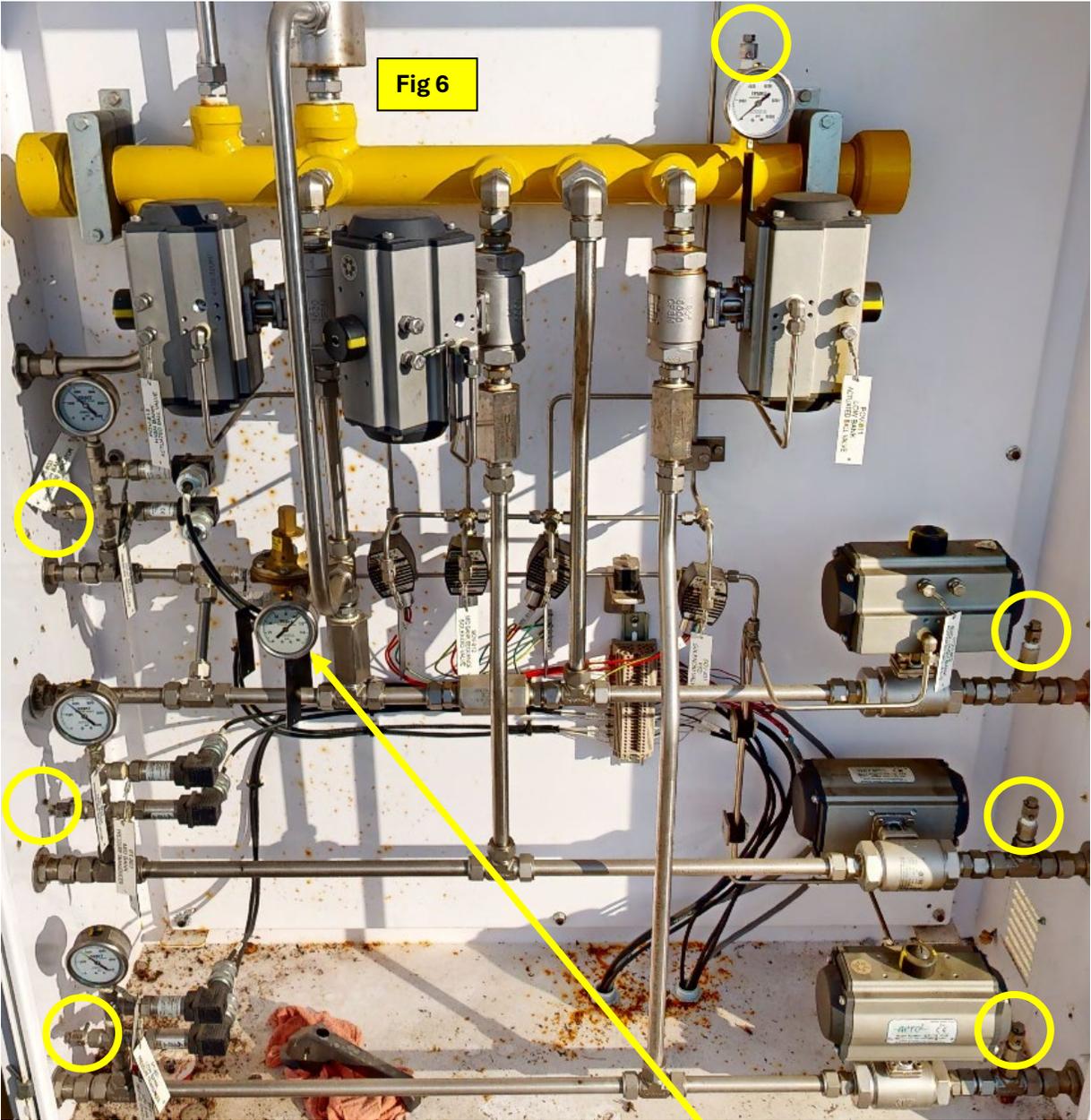


Fig 6

Actuator Gas Supply Pressure Gauge. Normal Operating Pressure 100-120 PSI

WARNING: Check valves are present throughout the Priority Valve Panel, and pressure exists on both sides of each check valve. Be sure to open all bleeder valves to perform maintenance safely. Follow Step 7 to confirm that all gas pressure is reduced to 0 PSI.

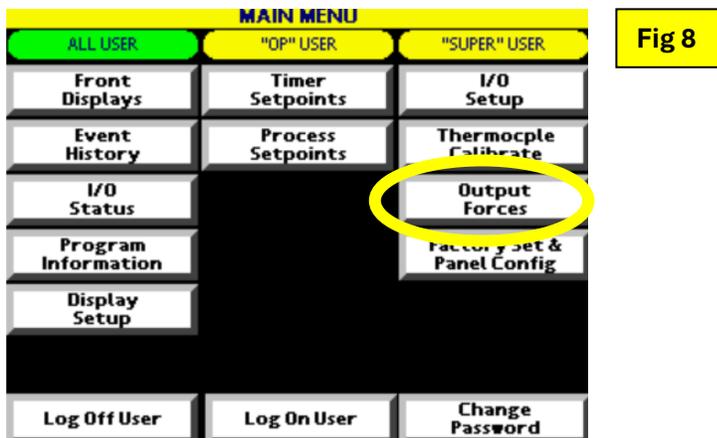
3. Forcing Digital Outputs (Priority Panel Actuator Solenoids)

- 3.1 Identify the Master Compressor on the HMI Display. The Master Compressor controls the Priority Valve Panel.
- 3.2 On the Compressor HMI Display side buttons, push the bottom **Menu Button** (shown in **Fig 7**).



- 3.3 Select the **Output Forces** (shown in **Fig 8**).

NOTE: Start Control must be in OFF Position



- 3.4 Enter the Username: **Super** and Password: **133**
- 3.5 All digital outputs (including solenoids) are set to **Forced OFF** by default.
- 3.6 The operator can toggle each digital output between '**Forced OFF**' and '**Forced ON**'

WARNING: Ensure all personnel are clear of the priority panel area before proceeding to the next step, as there will be a gas release when opening the valves

- 3.7 Press '**ENABLE OUTPUT FORCING**'
- 3.8 Select the following solenoids to open the ESD, Low Bank, Mid Bank, and High Bank actuated valves in the Priority Panel:
 - SOL-810
 - SOL-811
 - SOL-812
 - SOL-813

3.9 Once the Valves have been activated to Open, walk to the Priority Panel and visually confirm they are opened.

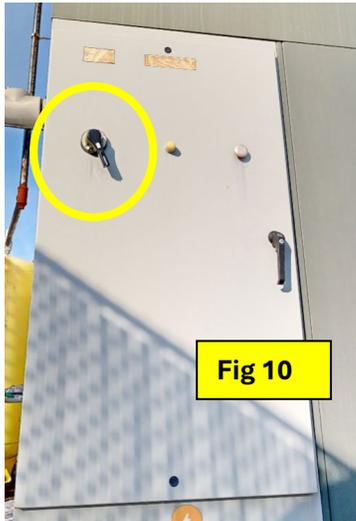
NOTE: The purpose of this is to ensure that there is no gas trapped behind a check valve and that all gas paths have been opened to venting.

De-energizing after Depressurizing

3.10 Turn the Panel power OFF (shown in **Fig 9**).



3.11 Turn OFF Power to both Compressors Motor Control Panels (MCC) and use LOTO procedures on the Electric supply. Shown in **Fig 10** and **Fig 11**.



4. Verification

- 4.1 Verify with **ALL** gauges located inside the Priority Valve Panel are reading **0 PSI** before service or repairs.
- 4.2 Call a supervisor or a Chevron Reliability Engineer before performing any work. Lock-out Tag-out and Zero Energy State **MUST** be verified (in person or video).

Re-energization (After Service)

5. Restore Energy

- 5.1 Locate the bleed valves on the inside of the Priority Valve Panel **Fig 5** and circled in the diagram shown in **Fig 6**. Use a 7/16 box wrench and turn the bleed valve clockwise to **Close**.

NOTE: Double Check that ALL bleeder valves are closed and any tubing or components that were being serviced are tight and secured.

- 5.2 Remove Lock-out/Tags from High Bank, Mid Bank, Low Bank Storage Valves, Gas Supply Valves for the Compressors, High Bank, Mid Bank, and Low Bank Dispenser Valves.
- 5.3 Slowly open one valve at a time allowing pressure to reach approximately 500 psi then close valve. Do this for the following valves (refer to **Fig3.** & **Fig 4**):
 - High Bank storage,
 - Mid Bank storage,
 - Low Bank storage,
 - Gas Supply Valves for the Compressors,
 - High Bank dispenser,
 - Mid Bank dispenser,
 - and Low Bank dispenser.

NOTE: The valve(s) may be hard to open due to gas pressure on the other side of the valve. This is normal.

- 5.4 Inspect the Priority Valve Panel for leaks using soapy water or a portable methane detector.
- 5.5 Gradually open the valves per step 5.3 increasing pressure to 1500 psi then close the valve and check for leaks.
- 5.6 Gradually open the valves per step 5.3 increasing pressure to 3000 psi then close the valve and check for leaks.
- 5.7 Gradually open the valves per step 5.3 increasing pressure to full pressure then close the valve and check for leaks.

WARNING: DO NOT open the next valve until the previous valve has completely pressurized.

- 5.8 Remove Locks and Open Final Stage Discharge supply on both compressors.
- 5.9 Remove Locks and Restore Power to the Compressors MCC.
- 5.10 Confirm that the Actuator Gas Supply Pressure is between 100 PSI and 120 PSI (shown in **Fig 6**).
 - To adjust Actuator Gas Regulator, remove the top cap **Fig 13.** with a small adjustable wrench.
 - Loosen the lock nut.
 - Turn the spring clockwise to increase pressure or counterclockwise to decrease pressure.



Fig 13. Top Cap to access pressure adjustment.



- 5.11 Turn Compressor Panel Power **ON**.
- 5.12 Turn the Compressor Start Controller **ON**.
- 5.13 Priority panel has been fully pressurized and a leak check has been performed.
- 5.14 Test the functionality of the priority panel by having vehicle fuel and observe the operation of the actuators and pressures on each Bank Gauge.
 - If issues are found while testing, repeat Steps 2-4

6. 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.

7. Reference:

- The Manufacturers Manual can be found in the Files Section on Aetos.
- In the search bar enter, “PSB” and select the model number associated with the PSB Dryer being serviced.
- For example: [PSB NG-SR-21-3-500 S-N- 331147 Manual.pdf](#)

Version History and Approvals			
Version #	Date:	Name and Position:	Status: (Created/Approved/Annual Review*)
1.0	9/24/25	Harlan Brodie (Reliability Engineer)	Created
1.0	12/1/2025	Brent Tesla (Manager of Renewables)	Approved

\Procedure.must.be.annually.reviewed.