

# **PURIFIER LN2 FILL PROCEDURE**

Rev -

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## **System Status**

- Level A of purifier below 75% via purifier overview HMI page
- PTA below 3 psig via purifier overview HMI page
- LN2 shield not being filled
- PT-110-N reading 50-60 psig via ODH HMI page
- Ensure EV-102-N and PV-105-N are closed via the ODH HMI page.
- LN2 Tank is above 10 inwc.
- Check HCV-13 hand-valve close.

## **Procedure**

1. Open EV-200-N via ODH HMI page
2. Open EV-100-N via ODH HMI page
3. Open HCV-13 (~2 turns) on the LN2 tank; the gauge PT-110N reached 60 psi while opening the valve.
4. Monitor TE-104-N and TE-109-N, and ensure they continue to fall below 95K. This should take 5-10 minutes.
5. When temperatures reach ~90K, Open PVNFA via the purifier overview HMI page.
6. Immediately close EV-200-N
7. Monitor purifier level A and PT-A via purifier overview LN2 page on HMI
8. If PTA goes above 8psig, close EV-100-N
9. When level A reaches 90%, close EV-100-N
10. Close HCV-13 on the tank.
11. Open EV-200-N
12. Close VNFA
13. If needing to fill the LN2 shield, transition to that procedure. If the LN2 shield does not need to be filled, keep EV-200-N open until the transfer line warms up.