

# Checklist Before Ordering LHe

Date: \_\_\_\_\_

Name: \_\_\_\_\_

## Pump station area - He-4

- ☐ flow meters on and working
- ☐ laptop webcam working
- ☐ {☐ UTL, ☐ 500TL, ☐ WTL, ☐ MTL, ☐ 100TL, ☐ LTL} pumped down
- ☐ {☐ 250LD, ☐ 500LD} Goddard fittings assembled and ready
- ☐ 500LD level probe/monitor plugged in and powered on
- ☐ helium gas cylinder hooked up to manifold
- ☐ pressurization helium cylinder hooked up to 500 LD
- ☐ at least one full backup helium cylinder nearby
- ☐ dewar scale is ready
- ☐ system is purged and backfilled with helium gas

## Pump station area - He-3

- ☐ LN2 trap filled
- ☐ Mark-III dewar filled
- ☐ He-3 lines vacuum tested
- ☐ LN2 trap regenerated
- ☐ record He-3 tank pressures in log book (T1, T2, T3)
- ☐ flow meter on He-3 gas rack on and reading
- ☐ system is purged and backfilled with helium gas

## Gamma vault

- ☐ 100LD Goddard fittings assembled and installed on 100LD
- ☐ 100LD level sensor plugged in and reading
- ☐ magnet LN2 sensor plugged in and reading
- ☐ magnet LHe sensor plugged in and reading
- ☐ fill LN2 in magnet space
- ☐ OVC is assembled and pumped down to  $\sim 1\text{E-}5$  mbar
- ☐ IVC manifold is assembled and hooked up to fridge
- ☐ Lakeshore sensors are being read to computer
- ☐ AVS-47 bridge is warmed up and all sensors are working
- ☐ walkie talkies charged

## Microwaves

- ☐ EIO water is running
- ☐ microwaves tested with power meter
- ☐ wave guide is hooked up to fridge

## NMR

- ☐ signal achieved with oscillator crystal in mixing chamber coil
- ☐ NMR water is running
- ☐ PDP running