The G_E^n Polarized Target Check List

(Please Fill in at the Beginning of Each Shift)

Date _____ / _____ / 98   Time _____ : _____   Name ______________________________

Target Material : __________   Dose / Size : ____________________ (if applicable)

Target Position : ☐ Top ☐ Solid ☐ Hole ☐ Bottom ☐ Dummy   Charge : _______ 10^6 nC

Rack in DAQ Room

Varian EIO PS Remote Control Unit ☐ Transmit ☐ Standby

PS Temperature : _______ °C   Cathode Current : _______ mA   Body Current : _______ mA

Frequency Modulation Generator   Amplitude : __________ V P-P   Frequency : __________ kHz

Pump Control Panel (please circle valid switch position, the default is in bold face)

Control : **Remote** Local   Mech Pump : **Start** Stop   Start Mode : **Manual** Auto

Roots Blowers   RB1 : **Start** Stop   RB2 : **Start** Stop   RB3 : **Start** Stop

Valves   PV511 : **Open** Close   PV520 : Open **Close**   PV525 : Open **Close**

Small Rack in Counting Room

Video Camera **14 63** (looking at the target platform, beginning with the top of the rack to the right)

AVS–46 : __________ kΩ ^{3}He Pressure : _______ torr ^{4}He Pressure : _______ torr

Main Flow : _______ SLPM   Magnet Flow : _______ SLPM   Separator Flow : _______ SLPM

Microwave Frequency : __________ GHz   Target Position Encoder Readout : _______________

Microwave Switch Position : _______________

Target Polarization Measurement Computer

NMR Channels (☐^{1}H ☐^{2}H ☐^{15}N) Polarizations : P_1 = ______ P_2 = ______ P_{15} = ______

Mode : ☐ Pause ☐ One Point ☐ **Take Data** ☐ Continuous Sweep ☐ Monitor

Temperature ^{3}He : ______ K ^{4}He : ______ K

Magnet   PS Set Point : _______________ A   Set Rate : __________ A/min

Mode : Persistent ☐ **Yes** ☐ No   Magnet Current : _______________ A

Target Cryo-Control Computer (Liquid Levels)

Buffer Dewar Level : __________ %   Magnet Level : __________ %   Nitrogen Level : __________ %

Target Slow Controls Computer

Q-Meter Temperatures : ☐ Stable Below 30°C ☐ Unstable ☐ Increasing ☐ Decreasing

EIO Temperatures : ☐ Stable Below 32°C ☐ Unstable ☐ Increasing ☐ Decreasing