

**G0 TARGET SHIFT CHECKLIST (/home/gzero/g0targ/maunals/g0target\_checklist.pdf)**

Date \_\_\_/\_\_\_/\_\_\_ CRYOGEN: LD2\_\_\_ LH2\_\_\_ He/H gas\_\_\_ Checked By \_\_\_\_\_

Time \_\_\_\_\_ Checked In Hall C\_\_\_ CH\_\_\_

**1) REFRIGERATOR - ESR - Hall C**

Supply Pressure (15 K) \_\_\_\_\_ ATM T @ JT valve (ghet3) \_\_\_\_\_ K  
Return Pressure (15 K) \_\_\_\_\_ ATM T delivered (ghet2) \_\_\_\_\_ K  
JT valve opening \_\_\_\_\_ % T return (ghet1) \_\_\_\_\_ K  
15 K coolant flow \_\_\_\_\_ g/s

**2) TARGET**

He Cell Supply (gpt4) \_\_\_\_\_ PSIG T Pump Outlet (gt1) \_\_\_\_\_ K  
Loop Pressure (gpt3) \_\_\_\_\_ PSIG T Pump Inlet (gt2) \_\_\_\_\_ K  
He Cell Pressure(gpt5) \_\_\_\_\_ PSIG T Manifold Outlet(gt3) \_\_\_\_\_ K  
He-H Pressure (gpt8) \_\_\_\_\_ PSID T Manifold Inlet (gt4) \_\_\_\_\_ K  
Pump Pressure (gpt9a/b)\_\_\_\_\_ PSI T Heat Exchanger out (gt5) \_\_\_\_\_ K  
He Cell Bottle (gpt12) \_\_\_\_\_ PSIG T Heat Exchanger in (gt6) \_\_\_\_\_ K  
P7 Ballast Tank Pressure \_\_\_\_\_ PSIA T Flyswatter (gfst) \_\_\_\_\_ K  
Pump Tachometer \_\_\_\_\_ Hz T Tungsten radiator (gradt) \_\_\_\_\_ K

Archiver: ON OFF

**4) TARGET LOOP HEATER CONTROL**

\_\_\_ Computer: Auto\_\_\_ (Auto Power Setting \_\_\_\_\_ W) Manual \_\_\_ Off \_\_\_  
PID \_\_\_ (PID Temperature Sensor \_\_\_\_\_ PID Set Value \_\_\_)  
\_\_\_ Manual: Iset (Ref Voltage) \_\_\_\_\_ Vset (Ref Voltage) \_\_\_\_\_  
Beam Power \_\_\_\_\_ W Heater Power \_\_\_\_\_ W Beam Current \_\_\_\_\_ uA  
Total Power (Pbeam+Pheater) \_\_\_\_\_ W

**5) Target Position** FSD STATUS: \_\_\_\_\_ Target in beam: H2 SH BH W Out

**6) CHAMBER**

CCG (g0smsvac) \_\_\_\_\_ Torr GV1(hall/24", the dump GV) open\_\_\_ closed\_\_\_  
GV2(hall/6", SM-Girder GV) open\_\_\_ closed\_\_\_

**7) GENERAL**

Raster: ON OFF Raster size \_\_\_\_\_ (mm^2)

**TARGET COMPUTER ALARM HANDLER STATUS**

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**Alarm handler on?**    YES    NO

Alarm connected?

MV13	_____	Manual valve to N2 vent line in Hall C
SV13	_____	Solenoid valve to N2 vent line in Hall C
PV12	_____	Supply line (Ballast tank - cryogenic loop)

		Low	Value	High
Beam Current	_____	_____	_____	_____
Heater Power	_____	_____	_____	_____
He Cell Bottle (gpt12)	_____	_____	_____	_____
He Cell Supply (gpt4)	_____	_____	_____	_____
Cell - Loop (gpt8)	_____	_____	_____	_____

<b>Valves</b>	_____	OK for beam:	YES	NO
Target Temp (gt3)	_____	_____	_____	_____
Loop Press (gpt3)	_____	_____	_____	_____

Had any Nitrogen alarms during your shift?    YES    NO

COMMENTS: