

Last edited:
10/30/19

Meson Startup Checklist

Shutdown Work

All shutdown work completed

Vacuum

All roughing pumps turned on with roughing valves open and pressures at operational levels

I55, Switchyard, <Meson T>

I55, Switchyard, <Meson C>

LCW Systems

MS2LCW system up and running (**S18 MESON <14>**)

Verify that all operational cooling tower fans run successfully (F:MS2CTB off to enable manual control)

Make sure temperature regulation is enabled (F:MS2CTB)

F:MS2RSYS > 5 MOhm to be able to run power supplies

M01 Raw system up and running (local control @ MS1); needs MS2 up first

Instrumentation

BLM high voltage supplies on; remote readback only, control is local

(**S18 M_TUNE <21>**) ~500 V

Profile monitors

MWMS1 front-end up and running (**D31**)

Sequences enabled (**S45 Meson Line and Meson Center**)

Verify timing event configuration, background seen upon trigger (**S45 Meson Line and Meson Center**)

Monitors moved in and out of beam path to verify motion (**S45 Meson Line and Meson Center**)

High voltages on (**S18 M_Quads <10>**)

Scintillator counter high voltages (local @ MS4)

Ion chamber and SEM high voltages

MW1SEM (local @ MS1)

MC1SEM (local @ MS1)

MT4IC (local @ MS3)

MC6IC (local @ MS4)

ArCO2 valved-in and operational (local @ MS2, pressure readback F:MS2GAS)

Motion Control

Verify position readbacks and motion

F-seps (**S18 SY120 <15>**)

MT4 momentum collimators: F:MT4CH1, CH2, CV1, CV2 (**S18 SY120 <9>**)

Meson primary target F:MW1TGT (**S17 MTEST1 <4>**)

Meson secondary target F:MT4TGT (**S17 MTEST1 <4>**)

M03 high-rate tracking area motion table: F:MT3HT, F:MT3VT (**S17 MTEST1 <4>**)

MTest pinhole collimator: F:MT3PUH, F:MT3PUV, F:MT3PDH, F:MT3PDV (**S17 MTEST1 <4>**)

MTest lead electron absorber F:MT4PB (**S17 MTEST1 <4>**)

Magnet power supplies

Power supplies configuration control unlocked by MCR

All magnets verified valved-in to LCW

All magnet power supplies verified valved-in to LCW

Ask MCR Crew Chief to put a SY event in the timeline to test power supply ramps

Ask MCR to run turn-on sequencers for Meson, placing MTest in proton, HE pion, and LE pion modes, and MCenter at 64 GeV.

Alarms

Validate all Meson alarm lists and active/bypassed statuses

Signature/Date: _____