

PHASE II STATUS

Rachel Mannino
14 December 2017

PHASE II CLEANROOM

- Cleanroom is built, and HEPA's are on
- Initial particle counts came back very high
 - Vessel is low to the ground
 - Workspace area over lid is far from HEPA's
- Thoroughly cleaning Wednesday, Dec. 13
 - Recount particles afterward

PHASE II VESSEL

- Installed in cleanroom
- Breakout work complete except for leak checking, etc.
- Lid is off
 - Vessel is slightly dirty (wipe-down rather than scrub)
- Mirror plate and lifting equipment is in hand
 - Modify lift plan for each heavy part?

PHASE II DETECTOR COMPONENTS

- In hand:
 - PMT array parts, reflector plate, plastic supports for plate, locator pins, screws, PMT cables.
 - Bottom and cathode rings
- In transit:
 - Field hoop
 - HV power supply
- Outstanding:
 - PMTs undergoing testing at Brown. Should be done before holidays(?)
 - Screws to attach grid rings to support posts
 - HV cables
 - DAQ?

PHASE II NEAR-TERM SCHEDULE

- Can test the cathode ring (no wires) in Phase II once PMTs arrive.
- Detector assembly during intervening time.
- Field hoop assembly needs epoxy joints to cure (≤ 5 days)

PHASE II LONG-TERM SCHEDULE

- Completed prototype bottom grid is first to be woven
- All LZ grids should be tested before being sent to site
- To reduce the duration of Phase II:
 - Learn to quickly identify SE and SPE in the data
 - Plan efficient work plans, eg., train enough of us that more than 1 person is trained to operate jib crane, plan workdays so that enough people are there for tasks which require multiple people
 - Test to operating voltages/fields rather than goal voltages/fields
 - Test anode-gate together