

AIPINJ Phase I Jobs for 2021 (and beyond...)

Joe Jobs

- Schedule bluejeans meetings

Wien Jobs

- U-Wien “dummy for alignment” => Carlos has all he needs, process now well defined, will try it out...
 - Top/bottom cores defines magnet plate, field clamps define magnetic axis
 - Pick V-Wien orientation (since first one)
 - Use longer washers and Teflon blocks, align electrodes as parallel as possible
 - Check alignment process
- V-Wien => Complete in January
 - Add new spacers, steel magnet, final align in vertical orientation
 - Bake, re-test HV
 - Ready for girder...
- H-Wien
 - Fabricate new nickel plates, clean, anneal, provide to MMF
 - Assemble into H-Wien, map axis, compare profile to V-Wien
 - Pick one set of plates, call it done
 - Start H-Wien rebuild => clean, assemble/align, bake, HV test, girder
- 3d electrodes
 - (2) resurface electrodes returned, (4) more to come?

Magnet Jobs

- MFX – (3) tested, mounted, dressed, measured, ready, (3) available for Phase 2
- MFY – (2) available for chopping chamber
- MHD – (8) tested/ready on A1/A2, (4) on dummy to dress/fix gap, need bake clamps
 - Lakshmi is asking for dummy cube measurements...see Riad/Mike/Joe
- MDR – (2) dipole QC ok, (1) mapped and Jay checking if OK, then map second
- MQW – (16) coils rec'd + (16) more coming => (4) ready for pick-up for fit test
 - Joe will send QC results on first (8)...

Kicker Jobs

- Complete coil PO => Awarded to Technicoil (12/16/20), great! => mid-February-ish
- Design/fab supports
 - Lakshmi is waiting on drawings per 11/2 model, will evaluate terminal block
 - Keep Jerry in loop

Other Pre-Assembly Jobs

- Viewers
 - Waiting on critical part => air cylinder
- (4) Quad crosses
 - (2) coils + (1) viewer + (1) IP + (1) window + (1) 6-way weld flanges
 - Paste Danny's assembly steps here

- Write down sequence list from assembly to mapping to installation to post-bake checks

Can we assemble Wien girder?

- (3) bpm => Done
- (2) Wien filters => V-Wien (~75%), H-Wien (~25%)
- (4) Quads crosses => 0%
- Prebuncher => Done (but Mark will test until late January)

Can we assemble A1/A2 girder?

- (2) valves => on hand
- (1) DP can => on hand
- (2) bpm => on hand
- (1) viewer + PCup combo => rebuild viewer
- (1) yag / (1) harp => rebuild viewer
- A1 cube => Marcy fixed shorting issue, so gronk/align/calibrate
- A2 cube => Finish calibration

Load-Lock Gun to Y Jobs

- Safe the photocathodes
 - Vent suitcase, remove pucks, check manipulator stroke
 - Move suitcase to tunnel, attach to tee, bake tee/suitcase w/ suitcase valve open
 - Vacuum good? Open prep valve, move photocathodes to suitcase, close valves
- Bake prep
- Bake HV/NEG and Y

Remaining ME Jobs

- Drawings
 - Songsheet from Chase
 - MHD coil tabs req'd rework to fit tightly
 - Viewer assembly?
 - Gun 5mm closer to valve...maybe update with 2B?
 - Longer washers for Wien spring hangers
- Remaining Jobs
 - MHD, MQW protective clamps
- "New" Jobs
 - Help Shukui design/fab new small outrigger box, can use table
 - Hep us show cable tray, LCW, etc on 3d model to decide/choose
- Installation
 - Do we have all final assembly drawings?
 - Does Chris have all final "points?"

Installation Steps

- Girders
 - A1/A2 + FC#1 + choppers
 - Wien girder

- Steps
 - Pre-assemble on girder in TL
 - Move to tunnel
 - 2A align
 - Vacuum hookup, pump down, leak check
 - 2B align
 - Bake
 - Leak check

What comes after Phase 1?

- Chopping chamber rebuild is approved for next SAD
- Complete design of Phase 2 beamline
- Fabricate new Phase 2 beam line components