

## Friday September 13, 2024:

1. Bench Test in TL 1137: ePAS sign in, Pre-Job Brief, and MSD
2. Measure rise time, ringing, and circular polarization and document results – Matt and Shukui
3. Kent visit: measure rise time in TL 1137

## Week of September 16, 2024:

### Monday

1. Start long burn-in at operating frequency (15 Hz then 960 Hz) and voltages – Steve, Jim
2. Rewire of xport fiber converter chassis – Jim

### Tuesday

1. CEBAF Laser Room Planning Walk-thru – Riad, Shukui, Jim
  1. Where to put drivers on laser table
  2. Where to install xpot in rack
  3. How / where to re-route fibers, com cables, power cables
  4. What goes where, who will do

### Wednesday

1. Kent visit: measure rise time in TL 1137

### Thursday

1. Team review of planning and ePAS

### Friday

1. CEBAF Laser Room Planning Walk-thru – Riad, Shukui, Steve
  1. Measure rise time, ringing, and circular polarization of existing RTP and document results
  2. Carefully plan connection process of RTP to new drivers

## Week of September 23, 2024:

1. General installation ePAS and ATLis – **Submitted**, waiting on approval – Riad
2. Screen updates – Jim
3. Follow-up on software operation in Accelerator – Jim
4. non-NRTL inspection and QR sticker – Jim
5. Plan to measure RTP eight applied HVs from UVA Prototype – need ePAS and ATLis (Jim)
6. Measure applied HV to RTP in TL 1137. Is there any cross-talk? Jim
7. Plan to provide ground to rack in laser room
8. Plan to measure IA rise time

## Monday

1. **Slow down transition time – Steve**

## Tuesday

1. **Upload new firmware to Helicity Generator Board to provide Hel and nHel signals in laser room – ePAS and ATLis are ready (Riad, Ed)**

## Week of September 30, 2024:

1. Cut off HV cables to RTP cell, re-connect to old HV drivers and measure again
2. Ethernet cables pull to xport controller chassis
3. Route comms fibers from controller to drivers on laser table.
4. Install and connect drivers
5. Set drivers to operational voltages
6. Measure new driver rise time, ringing, and circular polarization and document results

## Week of October 7, 2024:

1. Measure electrical pickup in laser room and ISB using Parity DAQ – MOLLER Collaboration

**NEW RTP Cell Controls**

**TP Cell Counts Set (0 - 65535 Counts = 0 - 10 Volts)**

Voltage	Counts Set	Counts Read	DLTS OUT	HV OUT
Voltage 1	65000	65000	1984	1755
Voltage 6	60000	60000	1831	2
Voltage 3	25000	25000	763	732
Voltage 8	25000	25000	763	786
Voltage 2	62000	62000	1892	2048
Voltage 5	60000	60000	1831	1872
Voltage 4	25000	25000	763	782
Voltage 7	15000	15000	458	571

**GTR Wave Counts**

V L/4: 0

V L/4,1: 0

V L/4,2: 0

**PITA Counts**

V PITA: 0

V PITA,1: 0

V PITA,2: 0

**Alpha Position U/V Counts**

V apos,U: 0

V apos,V: 0

**Delta Position U/V Counts**

V dpos,U: 0

V dpos,V: 0

**Inver Calc Counts**

C1: 0

C2: 0

C3: 0

C4: 0

C5: 0

C6: 0

C7: 0

C8: 0

Green = ON

RTP1 HELICITY

RTP1 HV

RTP1 ALARM

RTP1 HV1 RDY

RTP1 HV2 RDY

RTP1 HV5 RDY

RTP1 HV6 RDY

  

Green = ON

RTP2 HELICITY

RTP2 HV

RTP2 ALARM

RTP2 HV3 RDY

RTP2 HV4 RDY

RTP2 HV7 RDY

RTP2 HV8 RDY

Gateway Channel Access
User Guide