

From: [Young-Min Shin](#)
To: [Daniel Moser](#); [Roger Ruber](#); [Tony Reilly](#); [Jay Benesch](#); [Shawn Frierson](#); [Michael Drury](#); [Tom Powers](#); [Mike McCaughan](#); [Randy Michaud](#); [Eduard Pozdeyev](#); [Harshani Senevirathne](#); [Curt Hovater](#); [Tomasz Plawski](#); [Ramakrishna Bachimanchi](#); [Jayendrika Tiskumara](#); [Jonathan Creel](#); [Clyde Mounts](#); [Ryan Slominski](#); [William Baumgartner](#); [James Latshaw](#); [Brian Freeman](#); [Mike Spata](#); [David Gelhaar](#); [Eric Deir](#); [Dakota Christian](#); [Mark Wissmann](#); [Adam Carpenter](#); [Kyle Hesse](#); [Matt Weaks](#); [Adam Duzik](#); [Scott Higgins](#); [Dennis Turner](#); [Robert Norton](#); [Joshua Settle](#); [Calvin Redman](#)
Subject: RE: CEBAF Gradient Team
Date: Monday, 17 March, 2025 15:22:48

Additional info/updates added below. FYI

From: Daniel Moser <moser@jlab.org>
Sent: Monday, March 17, 2025 2:58 PM
To: Roger Ruber <ruber@jlab.org>; Tony Reilly <areilly@jlab.org>; Jay Benesch <benesch@jlab.org>; Shawn Frierson <frierson@jlab.org>; Michael Drury <drury@jlab.org>; Tom Powers <powers@jlab.org>; Mike McCaughan <michaelm@jlab.org>; Randy Michaud <rmichaud@jlab.org>; Eduard Pozdeyev <pozdeyev@jlab.org>; Harshani Senevirathne <iresha@jlab.org>; Curt Hovater <hovater@jlab.org>; Tomasz Plawski <plawski@jlab.org>; Ramakrishna Bachimanchi <bachiman@jlab.org>; Jayendrika Tiskumara <jkt@jlab.org>; Jonathan Creel <creel@jlab.org>; Clyde Mounts <cmounts@jlab.org>; Ryan Slominski <ryans@jlab.org>; William Baumgartner <wbaum@jlab.org>; James Latshaw <latshaw@jlab.org>; Young-Min Shin <shin@jlab.org>; Brian Freeman <bfreeman@jlab.org>; Mike Spata <spata@jlab.org>; David Gelhaar <gelhaar@jlab.org>; Eric Deir <deir@jlab.org>; Dakota Christian <dchri@jlab.org>; Mark Wissmann <wissmann@jlab.org>; Adam Carpenter <adamc@jlab.org>; Kyle Hesse <hesse@jlab.org>; Matt Weaks <weaksmc@jlab.org>; Adam Duzik <duzik@jlab.org>; Scott Higgins <higgins@jlab.org>; Dennis Turner <dturner@jlab.org>; Robert Norton <norton@jlab.org>; Joshua Settle <settle@jlab.org>
Subject: Re: CEBAF Gradient Team

E-mail Clyde shared with me and then shown during the meeting today is below.

From: Young-Min Shin <shin@jlab.org>
Sent: Monday, March 17, 2025 12:59 PM
To: AESRFS Staff <aesrfs-staff@jlab.org>; Clyde Mounts <cmounts@jlab.org>; Calvin Redman <redman@jlab.org>; David Gelhaar <gelhaar@jlab.org>; Tomasz Plawski <plawski@jlab.org>
Subject: FW: RF Recovery status/plan

Thanks for the quick responses. Please feel free to correct any of the comments (yellow) below and add any comments to the missing (blue) part below. - Youngmin

Per Jayendrika's latest update on the RF HCO recovery status:

- **Total cavities not ready: 32**
- **Cavities currently bypassed: 12**
 - **NL:** 08-7, 16-4, 18-5
 - **SL:** 02-3, 02-6, 02-8, 08-6, 10-4, 12-4, 14-7, 15-6, 22-3
- **Cavities requiring filament board repairs: 12** → Sam, Evonda (repair) & Chris, Kwame (installation)
 - **NL:** 08-7(ePAS PTW 6726 & IC 8651 ready for review), 11-5, 16-4(ePAS PTW 6485 & IC 8660 ready for review), 18-6, 19-6(ePAS PTW 6727 & IC 9034 ready for review)
 - **SL:** 02-6, 08-6, 10-4(#3 replace), 14-7(Highest gradient gain #1 replace), 17-8, 19-2(#2 replace), 22-3(C100 filament board available now)

→ They are completing about 2-3 per day as they are trying to streamline the process, so it would be Friday 3/21/2025 before they can get 8 more boards ready to install.

- **Reflected power (KRRP) issues: 2** (1L19-3(ePAS PTW 6725 & IC 9034 ready for review), 1L22-2 not a mechanical fix. This need some research. Might be best as a "beam studies") → Larry (load repair), Chris & Dave (installation)

→ PTW/IC for 1L19-3 circulator load replacement ready for review.

- **Klystrons to check/replace/repair: 8** → ????
- **NL:** 12-6, 18-5
- **SL:** 02-3, 03-5, 07-2, 14-8, 15-6, 23-3
- **Other outstanding issues: 5**
 - 1L25-5: Overtemp on the solenoid PS(can be done when anyone is available to replace the solenoid PS) → Michael, Larry
 - 2L02-8: HV (zone) (fairly low gradient cavity, comparatively) → ????
 - 2L09-6: CWWT(SRF issue with sensor from the cryomodule. Not our problem.) → ????
 - 2L12-4: HV (zone) (might be a filament board but needs some troubleshooting. High gradient gain and should be looked at first as manpower is available) → ????
 - 2L17-4: Unstable → ????

- 1L09: hi-potting and low-voltage tests done. RF issued PTW (6580)/IC(8799) for AESSUP electricians to work on the transformer to install it to the zone.
- 2L05: RF is currently assisting SRF to resolve the tuner issues of 3rd and 5th cavities.

These updates are accurate?

Also

1. What is the current status of filament board repairs, and when do we expect to complete them? There are 4 spare filament boards on the shelf ready to go. At least 1 is a C100. There are two returned from the fab shop that have been repaired ready for checking. Completion is dependent on availability of persons to troubleshoot them. When their skills are required elsewhere, there is no progress.
2. What are our plans for addressing the klystron issues and HV-dropped zones? Replace the tubes and legacy loads as manpower allows. C100 circulator issues are not a mechanical fix.

Please let me know by 1:30 pm today, so we can discuss further in the meeting.

Thanks,
Youngmin

From: Roger Ruber

Sent: Monday, March 10, 2025 1:20 PM

To: Roger Ruber <ruber@jlab.org>; Tony Reilly <areilly@jlab.org>; Jay Benesch <benesch@jlab.org>; Shawn Frierson <frierson@jlab.org>; Michael Drury <drury@jlab.org>; Tom Powers <powers@jlab.org>; Mike McCaughan <michaelm@jlab.org>; Randy Michaud <rmichaud@JLAB.ORG>; Eduard Pozdeyev <pozdeyev@jlab.org>; Harshani Senevirathne <iresha@JLAB.ORG>; Curt Hovater <hovater@jlab.org>; Tomasz Plawski <plawski@jlab.org>; Ramakrishna Bachimanchi <bachiman@jlab.org>; Jayendrika Tiskumara <jkt@JLAB.ORG>; Daniel Moser <moser@JLAB.ORG>; Jonathan Creel <creel@jlab.org>; Clyde Mounts <cmounts@jlab.org>; Ryan Slominski <ryans@JLAB.ORG>; William Baumgartner <wbaum@jlab.org>; James Latshaw <latshaw@jlab.org>; Young-Min Shin <shin@jlab.org>; Brian Freeman <bfreeman@jlab.org>; Mike Spata <spata@jlab.org>; David Gelhaar <gelhaar@jlab.org>; Eric Deir <deir@jlab.org>; Dakota Christian <dchri@jlab.org>; Mark Wissmann <wissmann@jlab.org>; Adam Carpenter <adamc@JLAB.ORG>; Kyle Hesse <hesse@JLAB.ORG>; Matt Weaks <weaksmc@jlab.org>; Adam Duzik <duzik@jlab.org>; Scott Higgins <higgins@jlab.org>; Dennis Turner <dturner@jlab.org>;

Robert Norton <norton@jlab.org>; Joshua Settle <settle@jlab.org>

Subject: CEBAF Gradient Team

When: Monday, March 17, 2025 1:30 PM-2:30 PM.

Where: MCC Conference Room

Monday 13:30 bi-weekly meeting in the MCC Conference Room

Join ZoomGov Meeting

[https://jlab-org.zoomgov.com/j/1601304841?
pwd=Z1RIOVVUdkdXL2R2LzREZUNOUlh1dz09](https://jlab-org.zoomgov.com/j/1601304841?pwd=Z1RIOVVUdkdXL2R2LzREZUNOUlh1dz09)

Meeting ID: 160 130 4841

Passcode: 350117

Agenda Items: please contact Roger Ruber, ruber@jlab.org