



# **FAST Facility / IOTA**

## **Machine Report**

Daniel R. MacLean

AD Operations Meeting

Friday, 0900

13-October-2023

# FAST / IOTA

- RF Gun went down this past weekend – *ground faults within pulse xfmr tank; known issue*
  - Last Fall, opted to process/filter all of the dielectric (Diala) oil within the tank: this worked well, has been generally stable for ~1 year
  - Given proximity to end-of-run, it was determined we would try this again rather than completely replace the oil
  - Processed >40 hours w/assistance from Nick Gurley & Eric Claypool from EE Support - *significant improvement in dielectric strength*
  - Stopped at ~1500 yesterday; xfmr & klystron oil temps far too high to turn on Gun to test (process causes significant heating)
  - Huge thanks to Nick, Eric, Howie, and Ramfis from EE Support for all of their help, we greatly appreciate it
  - See e-log entries [248436](#) for more details
- Gun tested this morning: made it up to gradient after 2 additional trips, now seems to be holding...
  - Will keep running as long as it stays up – *IOTA150-LADR crew scheduled into afternoon, IOTA150-NIO to follow*
  - See: [248522](#)
- Schedule is completely full through this weekend
  - Official determination on whether we will continue into next week or stop will be made today @ the 1100 AD-ARD Dept. meeting
  - Based primarily on IPI cable pull contract / date
  - Most likely will continue through this week based on communications w/IPI management team