Shifter training for MICE runs

March 6, 2015

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Getting good data during a shift is easy but not obvious.



Figure : Keeping track of all this is simpler than you think.

- How do you know which parts of the DAQ to care about and which you can safely ignore?
- How will you know if something goes wrong? And what do you do in that event?
- Between the 6 oscilloscopes and the many computers and monitors, how do you know where to look?

The shifter manual is a great resource.

http://mice.iit.edu/mta/shift/mice/ShiftManual.txt

Checklist for shifters (more detail on following slides)

- 1. Get your bearings. (Updates from previous shifter and logbook.)
- 2. Put on hearing protection.
- 3. Log the start of your shift. This is important!
- 4. Run "Acnetize" in a browser (once per hour, see next slide)
- 5. While you're at it, run through the following checklist:
 - Number of sparks (new sparks? mention these in the logbook!)

- RF drive level set correctly?
- Tuning ok?
- Cavity temperature ok?
- Waveform capture on?
- ▶ ...

ACNET Monitor Parameter List – a good place to start

http://mice.iit.edu/cgi-bin/mta/acnetize

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Figure : Lines in yellow are the ones you should pay attention to.

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Checklist: Getting set up

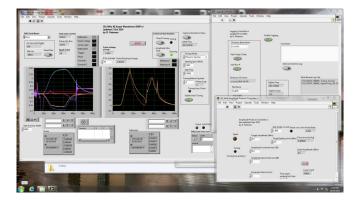


Figure : Shown on monitor labeled MTARFLV2. Look under keyboard for login to unlock screensaver.

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Checklist: Number of sparks?



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Checklist: RF drive level set correctly?

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Figure : First, is amplitude monitoring turned on?

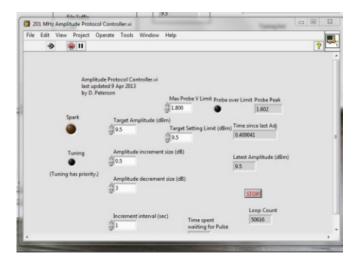
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Checklist: RF drive level set correctly? (cont'd.)



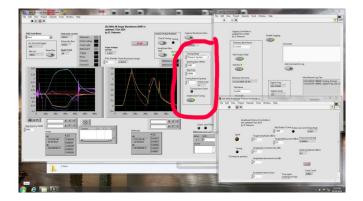
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Checklist: RF drive level set correctly? (cont'd.)



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Checklist: Cavity tuning ok?



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Other items on checklist

- Cavity temperature? Check the "Acnetize" site. http://mice.iit.edu/cgi-bin/mta/acnetize
- Waveform capture on? (This is important! We want to capture waveforms.) Check the LabView page to see that it's running.
- Other parameters in the shift manual are easily checked in the same way.

What if there are problems?

- If there are LabView problems during the day, call Dave (x3873).
- If there are RF problems during the day, call Al (x4843) or Yagmur (312-420-5519)

Your shift, in a nutshell

- 1. Orient yourself
- 2. Check parameters as described above
- 3. Relax, but keep one eye on the "Acnetize" script
- 4. At the end of your shift, take some time to write a logbook entry even if nothing happened.
- 5. Give the next shifter a detailed run-down so they know what to look for.

Logbook entries are easy!

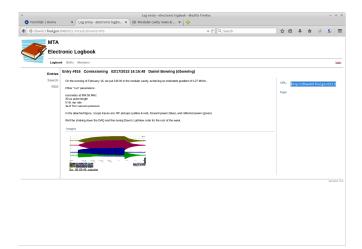


Figure : This brings us to Michael's part of the training.

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