

Things to do btw Runs 1-2:

Matt's list (Oct 1/20); HDice additions

1. PSS recertification (Wed 10/14, 10:00 – 16:00) ✓
2. Beam Authorization through December
3. Microphonics assessment with Peter Owen
4. Laser alignment through viewers ITVM904 and ITVM905, ✓
 - Run g4BL simulations for aperture size
 - Machine copper & then install the aperture plates
5. obtain epics control for A1 & A2
6. Replace RC#3 with RC#1? (hmm !)
 - 6.1 remove RC#3 and check on test bench; test RC#1 (✓), then decide which to reinstall.
 - 6.2 Isolate RC with ceramic breaks; remove BCM to make room if necessary.
7. Install another harp upstream of ITVM905 (use current readout, or Italian scintillators ?)
8. UED, update it, put elements in desired order
9. Quick reference update
10. Heat/activate a photocathode
11. Load unpolarized target ⇔ see below
12. Need an FSD and audible alarm for GDR trips to SEL mode
 - 12.1 FSD to allow FCup4 to be extracted ONLY in CW mode
13. Need video from ITVMA01B
 - 13.1 replace the 100mm OD x 4mm YAG at ITVMA01B with 50mm OD x thin YAG from Marcy. ⇔ requires new mount (✓).
14. Magnet rack errors in the alarm handler
15. Templates for viewers that don't get over-ridden
16. FCup4 position sensors, get it straight
17. Remove from beamline steering magnets MHBM904B H&V and MHBM904C H and pull these trim cards. (I think you mean MHBM904A H&V and MHBM904B H&V; M904C is the Radiabeam corrector and is used.) ✓
18. Get Dump turbo onto UPS ✓

11. HDice parallel Schedule:

location

- | | |
|--|------------------|
| a) Roof off – Mon or Tues morning, 10/12 – 10/13 | UITF ✓ |
| b) Purify Al-J1 HD gas ⇔ H ₂ : 9%, D ₂ : 1.5%, air: 0.1% | HDice Lab ✓ |
| c) Prep tgt on Inj Tool & bake – Tues evening, 10/13 | HDice Lab ✓ |
| d) Cold test of Target cell on inj tool – Wed, 10/14 | HDice Lab ✓ |
| e) Condense unpol HD into PD – Thur, 10/15 | HDice Lab |
| f) Remove Aperture tgt from TC (RadCon) – Thur – 10/15 | HDice Lab |
| g) NMR check in PD (w exch gas) – Fri, 10/16 | HDice Lab |
| h) rotate IBC vertical – Fri, 10/16, 15:00 | UITF |
| i) pump exch gas from PD – Fri, 10/16 | HDice Lab |
| j) NMR in PD (no exch gas) – Fri, 10/16 | HDice Lab |
| k) Transfer tgt to IBC, rotate horizontal – Sat, 10/17 | HDice Lab - UITF |
| l) NMR study in IBC | UITF |
| m) Rotate IBC, Transfer HD tgt back to PD – Thur, 10/22 | UITF – HDice Lab |
| n) Rotate IBC horizontal – Fri, 10/23 | UITF |
| o) Roof back on – Mon, 10/26 | UITF |