**LERF Punch List for Isotope Run**

Andrei Seryi has given the go-ahead to start preparing for an isotope run to verify that a graphite crucible will work. I have tried to put together a list of thinks that should be repaired or upgraded before running. Most of these are taken from the logs from previous runs.

Table 1. Action items from the commissioning punch lists from the 1X commissioning runs. Items that have been completed are not listed.

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| --- | --- | --- | --- | --- |
|  | **LERFLOG ID** | **Description** | **Resp. group** | **Individuals Resp.** |
| 1 | 3750824 | AMS signals are distorted and attenuated | I&C | ? |
| 2 | 3750920 | Rotate 1G03 viewer so that high energy is to the right | I&C | Norris, Gubeli |
| 3 | 3750913 | Make sure RF filters are in place in zone 2 | RF | Kerns |
| 4 | 3750917 | Reduce noise in the CARMs | SSG | ? |
| 5 | 3751397 | Get current signal from injector current cavity into EPICs | I&C | Jordan |
| 6 | 3751421 | Fix spurious crowbar trips in injector cavity 3. | HPEE | Nelson |
| 7 | 3751534 | Add dipoles to Backup/Restore list | Ops HL SW | Croke? |
| 8 | 3785202 | Can't hear PA in LERF vault | SSG | Kowal |
| 9 |  | Get hysteresis script fixed for FELEXT string | LLA | Croke |
| 10 | 3800976 | Put 1X magnets in the archiver | Ops | Frierson |
| 11 | 3809467 | Fix fans in IOC crates | I&C | Kortze? |
| 12 | 3801318 | Check field strength of MDG1X01H and repair | DCP | Delk |
| 13 |  | Setting arbitrary macropulse repetition rate and pulse length not possible. | CIS, I&C | Shukui, Kortze |
| 14 |  | Remove MGV2F00ST from HYST AREA | Ops HL SW | Croke |
| 15 |  | Submit LOSP for Drive Laser Enclosure | CIS | Shukui, Benson |
| 16 |  | Repair noisy ion pumps VIP0F02 and VIP1F0220 | CIS, SRFOPS | Bullard, Humphrey? |
| 17 |  | Replace air filters in RF gallery | FML | ? |

The items in blue may be lower priority, though Jerry should speak to the SSG items as to priority. The items with no responsible individual need to be assigned, If you know who is an appropriate person, let me knkow.

The first order of business is then to get these items taken care of. These are mostly accelerator items and not isotope target items so they should be charged to the RSR accounts. The one exception is the 1X corrector coil repair. This should be charged to ISOR&D..