

RHIC Run 22 Startup Status

12/07/2021

- RHIC beam startup
 - 12/3 0100: First blue injection
 - **12/3 1400: PSEG lab power outage**
 - Every CAD facility affected
 - 12/6 ~0001 Yellow injection
 - 12/7 Ramp development (no beam to top energy yet).
 - Outage probably immediately responsible for 1.5 to 2 day delay
- CeC beam-based alignment interleaved
- RHIC pC target positions set up (47 out of 48 available, 1 lost during setup)
- Blue helical dipole damaged, possibly due to the power outage
 - Outer coils can be run at high current to provide ~85% of the ideal spin rotation
 - Requires
 - re-establishing injection
 - Change of other snake current
 - Beam-based verification of new spin configuration
 - Specialized tuning of trajectories during ramp to counter the additional imperfection resonance strength driven by suboptimal spin rotation in the snake.
- *Top priority is verifying that the partial snake configuration can provide a viable physics program.*
 - *All other setup tasks are secondary*