**RocketTracks SOP**

1. Setting up the system
2. Before approaching the RocketTracks mechanical structure:
   1. Ensure Main Power Box is disconnected from battery, if not please follow instructions for section IV before proceeding to step 2.
   2. Ensure Main Power Box is disconnected from RTx Controller Box, if not please follow instructions for section IV before proceeding to step 2.
3. Make sure the axis position sensors (D-sub connector) to RTx Controller Box (mounted on physical structure) are connected. Make sure the screws are snug.
4. Make sure motor drivers are connected to RTx Controller Box. Make sure connector is snapped into place.
5. Connect Ethernet cable from manual remote to Rtx controller port 3 or 4.
6. Optional Step: If you will be operating in Automatic Mode, connect Laptop with Sightline software installed to the RTx Controller Box via Ethernet port 3 or 4.
7. Connect Power from Main Power Box to RTx Controller Box.
8. Ensure main power switch is in OFF position.
9. Connect Main Power Box to batteries
10. Ensure E-stop button is released
11. Switch power switch to on position
12. Now that the system is on do not approach the mechanical structure. If you need to do so for any reason follow procedure from section IV first.
13. To operate in Manual mode:
14. Enable Drive enable Switch
    1. Lift guard
    2. Toggle the switch
15. Switch mode switch to manual position
16. Control using vertical and lateral axis position knobs
17. Should odd behavior occur or an emergency arise push the E-stop button and then proceed to section IV.
18. See section IV to shut system down.
19. To operate in Automatic Mode:
20. Enable Drive enable Switch
    1. Lift guard
    2. Switch the switch
21. Switch mode switch to automatic position
22. *There are not currently steps for this procedure; they will be updated after the automatic tracking capabilities of RocketTracks are tested.*
23. See section IV to shut system down.
24. Shutting down the system
25. Disable the drive enable switch by closing the guard
26. Switch power to off on Main Power Box
27. Disconnect Main Power Box from battery
28. Disconnect Main Power Box from RTx Controller Box
29. Disconnect Manual Control from RTx Controller Box
30. If laptop is connected disconnect it from RTx Controller Box