SOP for Liquid-Liquid Experiment (ACCUSIZER)

1. Make sure valves A, B, C, D, E, F, and G are closed.
2. Pour three gallons of diesel fuel into the fuel tank.
3. Add water to fuel tank (approximately 27 ml)
4. Turn on mixer and agitate for 15 minutes.
5. Open valves A and B.
6. Tape recycle line to fuel tank.
7. Turn on fuel pump.
8. Let fuel recycle for 1 hour.
9. Let fuel enter the filter holder by opening valves C, F, and G.
10. Control flowrate into filter holder by adjusting valve C.
11. Take upstream water droplet distribution readings every 10 minutes by opening valve E.
12. When upstream water droplet distribution and pressure drop readings reach steady-state, begin taking downstream water droplet distribution readings by removing downstream tubing from settling flask
13. Take upstream and downstream readings every 10 minutes
14. When experiment is finished, close valves C, F, and G.
15. Turn off fuel pump.
16. Close valves A and B.
17. Place filter holder in glass tray and open filter holder.
18. Dump excess fuel into red can.