

BRW Weekly Checklist

Aerosol Rack

Nephelometer

- 1) Perform nephelometer span check.
- 2) Pull the "raw" breaker on the PID box
- 3) Type in "M O" to get to the wet neph menu the type "M start span check"
- 4) Follow the instructions. Remember to turn off the CO2 gas tank at the end.
- 5) If the reported error is more than 10% then repeat the span check.
- 6) Push in the "raw" breaker on the PID box

Impactor Box (every 3 weeks) < Enter log "starting impactor servicing."

- 1) Clean the impactor plates in the 1-micron and 10-micron impactors
- 2) Pull the "raw" breaker on the PID box (RH)
- 3) ~~Type "M" "bypass analyzers"~~ Choose "Bypass menu from main menu, "m", 2
- 4) Remove impactors and clean plates. See Section 2.5, 2 in larger manual for specific instructions
- 5) Install impactors
↳ remove fitting on close side of brass fitting, plus yellow taped tubes
- 6) ~~Open manual valve~~
- 7) Type "m" "unbypass filters" Do step 3, choosing to un-bypass.
- 8) Push in the "raw" breaker on the PID box (RH)

Filter Carousel Change

Do this either weekly (Jan-May) or every 4 weeks (June-December)

Type in "M F", "M start filter change" for the PMEL filters

Type in "M G", "M start filter change for the Scripps filters

Close the manual valve

Remove the filter carousel and change filters in the glove box

Remember to type "m stop filter change" once the new filter is in place.

Open the manual valve.

Note the pressure and low changes at the start of the new filter.

Filter #1 is the blank or reference filter. This sample filtered air for only a few seconds before the filter carousel switches to Filter #2.

Ship the used filters back to either PMEL or Scripps. Send an email to Scripps or PMEL if you don't have a set of replacement filters within a week of needing to change them.

Stack (upon request)

- 1) Remove the zero filter port on the stack. Place the zero filter on the 2-inch stainless steel tube. Note the particle concentration reported on the front panel of the CN counter. Has the zero check been completed?