BAIID Division Calibration Review

Guth Laboratories Model 34C Simulator

Vendor:	Installation Site:
County:	Address:
Assessment Date:	Manager/Installer Name:
Last Assessment:	Issues from Last Review:

Sealing of the Simulator:

- When screwing the jar portion onto the head simulator, do you moisten the rubber strip with certified solution to ensure the tightest seal? (Yes/No)
- When the device is not in use, are the outlet hose and the blow tube connected to ensure that the integrity of the solution is not compromised? (Yes/No)
  - If not, the alcohol content of the solution may dissipate.
- Is the rubber grommet that encompasses the external thermometer cracked, dry, or out of tolerance? (Yes/No)
  - If so, the integrity of the simulator may be compromised; replace if air leaks.
- Is there a tight seal between the glass container and the simulator's top housing? (Yes/No) – Place finger over outlet hose and blow air through blow tube; if you can see or hear air escaping then there is not a tight seal and the device may not be working properly (have installer conduct this test) [Model 34 C Manual, BSL- p.1].
  - If the glass container's thread or rubber seal is cracked or chipped, then replace.

Simulator:

- Does the Vendor supply adequate solution (if provided by Vendor)?
- Where is the unopened solution stored? [ACS Recommendations, p.1]
  - It must be stored in a cool location, with no extreme temperature changes, and must not freeze [p.1].
- How often is the solution replaced? (Manually Count or Computer Tracks)
  - If tracked by computer can ask installer to open up program to check countdown until solution needs to be changed.
- When changing solution, is the correct amount of new solution? [p.12]
- Is any of the solution out-of-date? (in the format of: YEAR MONTH DAY)
- Any time the offender brings their Interlock Device in for service, the BAIID must be calibrated via Illinois Administrative Code 1001.442 Section D (11); does this occur? (Yes/No)
- Environmental factors (i.e. deviations in temperature) can affect the calibration process negatively. If the device is not being used, it should be stored somewhere at room temperature, is this occurring? (Yes/No) [p.1]

Calibration:

- How long does the machine warm-up before calibrations are conducted? [p.12]
  - It will take approximately 15 minutes to reach the proper temperature [p.12].
  - The heater-lamp light will be OFF when the 10-4 has reached 34°C [p.12].
- Do you ensure that the simulator is 34°C before any calibrations are performed? (Yes/No) [p 12]
- If the installer must blow into the simulator for recalibration, does he or she rinse their mouth out first?
  - Additionally, if the installer manually blows into the device, solution will not last as long when compared to solution where an air pump is used in view of the fact that more moisture is introduced to the solution from the breath sample.

Cleaning and Preventative Maintenance:

- Use mild detergent to clean the top housing. Use chrome cleaner for removing stains and heavy soils [p.14].
- If algae or other abnormalities are noticed on the parts within the solution chamber use the following procedure:
  - Use one tablespoon of Clorox per 1 gallon of water, allow soaking for 3-6 hours followed by rinsing with COLD water, then Air dry (use of hot water could shock the thermostat and break the NIST thermometer) [p.14].
- Check to see if the fuse cap is secure - DO NOT OVERTIGHTEN [p.14].
- Replace the container gasket if uneven wear is noted (it is recommended the gasket be replaced once a year) [p.14].
- Inspect the glass container threads for chips or cracks and replace if necessary [p.14].

Notes:

Citations: Guth Laboratories Model 34C User Manual;
Alcohol Countermeasure Systems Reference Solution Recommendations.