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**MEMORANDUM**

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**TO:** LEGAL COMMUNITY  
**FROM:** AMANDA BOLDOC, TOXICOLOGY SECTION SUPERVISOR  
**SUBJECT:** DMT REFURBISHMENT.  
**DATE:** SEPTEMBER 19, 2024

A handwritten signature in blue ink, appearing to be "A. Boldoc", is written over the "FROM" and "SUBJECT" lines of the memorandum header.

Over the course of the last year, a number of DMT instruments were removed from the field and were refurbished by the manufacturer, Intoximeters, Inc. The refurbishment includes a hardware and software upgrade. Due to these upgrades and other changes to VFL procedures, instruments that have been refurbished will be, for all intents and purposes, "new" instruments and will follow different testing procedures than the "old" instruments. Subsequent to refurbishment, three instruments were tested to develop and validate the calibration method. The refurbished DMT instrument is deemed fit for use as all acceptance criteria of the validation have been met. All refurbished instruments will successfully complete a verification process prior to being returned to the field. We are now ready to begin returning refurbished instruments to the field and collecting and refurbishing the remaining units. This will mean that for a period of time there will be both "old" and "new" instruments in use. The following is a list of changes that have been made:

**Manuals and Procedures:**

Activities performed using all "old" instruments will continue to utilize the procedures outlined in TOX\_P200\_DMT Manual version 4 and, if needed\*, TOX\_F200\_2\_DMT Certificate of Calibration version 2. DMT Operators collecting evidential breath tests and DMT Supervisors conducting maintenance on "old" instruments will follow the previously approved procedures outlined in TOX\_D200\_2\_DMT Operator Manual version 2 and TOX\_D200\_1\_DMT Supervisor Manual version 3, respectively.

Activities performed using instruments that have been refurbished will be performed in accordance with the procedures outlined in the current, approved TOX\_P200\_DMT Manual, which is version 5 at the time of this writing. DMT Operators and Supervisors using the "new" instruments will follow the current, approved procedures in effect at the time of use. At the time of this writing, these are TOX\_D200\_2 version 3 and TOX\_D200\_1 version 4, respectively.

\*It is not anticipated that any DMTs will be calibrated using the "old" procedures; however, if that need arises the corresponding form will be utilized.

**Hardware:**

- Quartz filter (also known as the internal standard or calibration check) removed
- Internal power supply now external
- Detector block and filter wheel assembly reconfigured
- New touch screen
- Replacement of Single Board Computers (SBC)
- Reconfigured rear panel including exhaust port on some generations of instruments

**Software:**

- Corrected data storage location issues within beta software revisions
- Updated reporting rules for rounding, truncating and masking results
  - Subject sample results between 0.000 and 0.003 g/210 will be reported as "0.000"
  - Results 0.004 – 0.019 g/210L will be reported as "< 0.020"
  - Results 0.020 – 0.360 g/210L will print the actual result

- Results 0.361 g/210L and above will be reported as ">0.360"
- The quartz disc internal standard (aka "Calibration Check") has been removed
- Clarification to the Place Of Last Drink (POLD) question at the end of the testing sequence
- Calibration is now named "Adjustment"
- Certification is now named "Calibration" and has an annual requirement
- Annual Preventative Maintenance check is now replaced by an annual Calibration requirement
- Simulator solution equilibration time reduced from 30 minutes to 15 minutes
- Added the ability to reset the 15 minute subject observation timer after the quality control checks but prior to subject sample delivery
- Increased the purge time
- Updated the agency location list