Draft QC Control Points for PMM Data Process (3/29/2012)

Definitions:

Host state: lead state which hosts PMM testing site

Lab test state: Contracted DOT lab which provides supplementary testing for the host state evaluation

Contracted agency: Any agency used by the host state to perform services for the PMM evaluation. Can be DOT, university etc.

Field Data collection

Retroreflectometers
- Lab calibrated before traveling to site
- Field calibrated at start of each work day
- Checked to field standard every 80 lines with possible field recalibration
- (Proposed): Use of calibrated lab standard on marking material(s) prior to each evaluation interval
- Annual manufacturer calibration and maintenance

Colormeters
- Calibrated to manufacturer’s standard daily
- (Proposed): Use of calibrated lab standard on marking material(s) prior to each evaluation interval
- Annual manufacturer calibration and maintenance

Data Review

Level 1: Limited review of data while collecting by review of previous work sheet
Level 2: General review of all data before completion of monthly evaluation

Laboratory Data

- Accreditation or participation in acknowledged round robin testing
- Initial laboratory testing compared to pre-established manufacturer range/value. Automatic retest in the event of results outside tolerance
- Limited conformance to AASHTO/ASTM precision/bias/replicate requirements

Data Review

Level 1: Review by testing facility prior to DataMine upload

Comment [m1]: We wait to calibrate on site each day.
Comment [m2]: Manufacturer standards don’t change. A lab standard could.
Comment [m3]: Might want to consider doing around robin like SSM does on retro and color.
Comment [m4]: We could require any testing lab to participate in the AMRL Paint PSP.
Level 2: Overview review by host state prior to final upload and extraction

DataMine Entry

Level 1: Review by field staff during upload
Level 2: Review by project leader prior to final upload and extraction. (In the case of a contracted agency, university, etc. final review must be done by DOT host state representative)

DataMine Review

Level 1: Oversight review (annually) by PMM TC subcommittee for presence and completeness

TRAINING

Technicians conducting pavement marking testing shall undergo a training program on methods, procedures and practices detailed in this work plan. Training shall be conducted by a technician with a minimum of a Bachelor's of Science degree and five years of paint testing experience. Proficiency of technicians shall be determined using ASTM or DOT sponsored Round robin testing program. Training records shall be documented per the lab QSM.

Comment [m5]: Not set in stone.