

IGNITION INTERLOCK DEVICE BEST PRACTICE MANUAL



A Complete Guide

*A COMPLETE GUIDE
TO ASSIST PROGRAM
ADMINISTRATORS
WITH THE
IMPLEMENTATION
AND OVERSIGHT OF
IID PROGRAMS*

An updated Glossary and
Five Chapters of IID Fun!!

Acknowledgements

NHTSA

AIIPA Board Members – Past and Present

Corporate Partners –

- Alcolock
- Element Materials Technology
- Guth Laboratories Inc.
- Intoxalock
- LifeSafer Ignition Interlock
- Low Cost Interlock
- RoadGuard Interlock
- Smart Start, Inc.

Glossary – Fifteen New Definitions

Acceptance Criteria Conditions

Bench Test

Calibration Set Point

**Cell Site Location Information
(CSLI)**

Field Test

Firmware (IID)

Functional Requirements

Global Positioning System (GPS)

**Global Positioning System (GPS)
Recording**

**Global Positioning System (GPS)
Reporting**

Hardware (IID)

Preliminary Breath Testing

Real Time Updating

Real Time Reporting

Software (IID)

Chapter 1 - Ignition Interlock Device Calibration Best Practices

Some slight adjustments...

- Technician to initiate, observe and conclude process
- Simulators operating for 45 minutes
- Addition of elevation correction chart

Chapter 2 - Bench and Field Testing Best Practices

Brand New Information

- Section 1 – NHTSA BAIID Model Specification Testing
- Section 2 - Cooperation Between Program Administrators and Manufacturers
- Section 3 - Education of Testing Personnel
- Section 4 - Bench Testing
- Section 5 - Field Testing
- Section 6 - Testing Failures
- Section 7 - Number of IIDs to Test

Chapter 2 - Bench and Field Testing Best Practices

Suggested Bench Tests

- Evaluating photo quality Viewing event log events to ensure they capture mandated events
- Location accuracy
- Verifying the breath sampling procedure
- Ease of interacting with the handset
- Compliance with any ADA requirements
- Sturdiness of design
- Limit back to back positive alcohol samples
- Certain positive alcohol tests

Suggested Field Testing

- Timeline of testing requirements
- Anti-circumvention protocols
- IID enhancement acceptability for quality and accuracy
- IID enhancement being captured at appropriate times
- Plausible circumvention techniques
- Client complaints specific to the IID being tested
- Effects of select mouth contaminants seen in the jurisdiction

Chapter 2 - Bench and Field Testing Best Practices

Discouraged Bench or Field Testing

- Any test using acetone or other volatile substances
- Multiple runs in a short time with high alcohol samples
- Any test using cigarette or vaping smoke
- Vibration testing
- Extreme temperature and humidity testing
- Electromagnetic interference testing
- Any test supplying an unexpected source of voltage
- Not the time to see how many times the IID will fail due to mouth contaminates
- Submitting samples with foreign substances still present in the mouth

Chapter 3 - Service Center Certification and Inspection Best Practices

AIIPA's Beloved First Best Practice Document Has Been Updated

- Covers both breath alcohol simulators and compressed gas
- IID record storage and production
- Technician education points
- Equipment
- Mobile service requirements
- Fixed site location requirements

Chapter 4 - Technician Certification Best Practices

Some Further Refinement

- Criminal history
 - Create a clear guide for manufacturers
- Discussion Regarding Separating Certification Levels
- Technician education

Chapter 5 - Enhanced Ignition Interlock Device Decision Matrix

Streamlined Document For Your Legislative Tool Kit

- Cameras
- Location Reporting
- Real Time Reporting to Law Enforcement

Three Appendices

Appendix A – Calibration Workflow Table

Appendix B – Elevation Correction Chart For Alcohol Gas Standards

Appendix C – Tolerance Quick Reference

Networking Is Still Key

