

PRODUCT TESTING ENVIRONMENT STANDARDS

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NaviFloor Robotics, Inc.

Effective Date: January 15, 2024

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1. PURPOSE AND SCOPE

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1. This document establishes the mandatory standards and protocols for all p

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2. These standards apply to all testing facilities, both permanent and temporary

a) Terrain-mapping capabilities

b) Multi-surface navigation systems

c) LiDAR and depth-sensing components

d) Fleet management software

e) Safety systems and emergency protocols

2. DEFINITIONS

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1. "Testing Environment" means any designated space, whether indoor or outdoor

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2. "Critical Testing Zone" refers to areas designated for testing core navigation

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3. "Surface Variation Matrix" means the standardized set of floor surfaces and

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4. "Test Protocol" means the documented sequence of evaluation procedures

3. ENVIRONMENTAL REQUIREMENTS

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1. Physical Infrastructure

a) Minimum testing area dimensions: 2,500 square feet

b) Ceiling height clearance: 12 feet minimum

c) Temperature control capability: 60°F to 85°F ($\pm 2^\circ\text{F}$)

d) Humidity control: 30% to 70% RH

e) Emergency power backup systems

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2. Surface Requirements

a) Primary test surface must include:

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Polished concrete

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Industrial epoxy coating

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Anti-static flooring

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Textured surfaces

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Transitional zones

b) Minimum coefficient of friction: 0.5

- c) Maximum permitted slope: 15 degrees

4. SAFETY AND SECURITY PROTOCOLS

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1. Access Control

- a) Biometric access system for Critical Testing Zones
- b) Video surveillance coverage of all testing areas
- c) Visitor logging and escort requirements
- d) Secure storage for test data and prototypes

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2. Emergency Systems

- a) Emergency stop buttons at 20-foot intervals
- b) Fire suppression systems appropriate for electrical equipment

- c) First aid stations and emergency response equipment
- d) Evacuation routes clearly marked and maintained

5. TESTING EQUIPMENT AND CALIBRATION

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1. Required Measurement Tools

- a) Certified laser measurement systems
- b) Environmental monitoring devices
- c) Surface analysis equipment
- d) Load testing apparatus
- e) Network performance analyzers

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2. Calibration Requirements

- a) Monthly calibration of all measurement devices
- b) Quarterly validation of testing equipment
- c) Annual certification by approved third-party vendors
- d) Maintenance of calibration records for 5 years

6. DATA COLLECTION AND DOCUMENTATION

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1. All testing activities must be documented using the Company's standardized

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2. Required Documentation

- a) Test plans and protocols
- b) Raw data collection
- c) Environmental conditions

d) Equipment calibration status

e) Deviation reports

f) Video documentation

g) Test operator credentials

7. COMPLIANCE AND AUDIT

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1. Internal Audits

a) Quarterly safety audits

b) Semi-annual compliance reviews

c) Annual comprehensive facility assessment

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2. External Certifications

- a) ISO 9001:2015 compliance
- b) Relevant ANSI/RIA standards
- c) Local building and safety codes

8. MODIFICATIONS AND UPDATES

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1. This document shall be reviewed annually by the Quality Assurance Department

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2. Modifications require approval from:

- a) Chief Technology Officer
- b) Chief Research Officer
- c) Quality Assurance Director
- d) Safety Committee Chair

9. LEGAL DISCLAIMER

These standards are proprietary and confidential to NaviFloor Robotics, Inc. Unauthorized disclosure, reproduction, or use is strictly prohibited. While these standards are designed to ensure product quality and safety, compliance does not guarantee against all potential risks or failures. The Company reserves the right to modify these standards at any time.

APPROVAL AND EXECUTION

APPROVED AND ADOPTED this 15th day of January, 2024.

Dr. Sarah Chen

Chief Executive Officer

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Marcus Depth

Chief Technology Officer

Dr. Elena Kovacs

Chief Research Officer

