QUALITY INSPECTION CHECKPOINTS DOCUMENT

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NaviFloor Robotics, Inc.

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1. PURPOSE AND SCOPE

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1. This Quality Inspection Checkpoints Document ("QIC Document") establi

2. This document applies to all production units, prototype systems, and field

2. DEFINITIONS

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1. "Critical Components" means essential hardware and software elements in

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2. "Quality Control Station" or "QCS" means designated inspection points w

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3. "Inspection Protocol" means the sequence of tests, measurements, and ver

3. MANDATORY INSPECTION CHECKPOINTS

1. Pre-Assembly Inspection

a) Component verification against approved supplier list

b) Visual inspection of all Critical Components

c) Verification of firmware versions and calibration certificates

d) Documentation of component serial numbers and batch codes

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2. Assembly Stage Inspections

a) Torque verification of all mechanical connections

b) Electrical systems continuity testing

c) Sensor alignment and calibration verification

d) Internal cable routing and connection verification

e) Environmental seal integrity checks

3. System Integration Testing

a) Power-up sequence verification

b) Communication systems check

c) Sensor array initialization testing

d) Navigation system basic functionality verification

e) Emergency stop system validation

4. QUALITY CONTROL PROCEDURES

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1. Each AMR unit shall undergo comprehensive testing at designated Quality

a) Multi-surface navigation capability verification

b) Obstacle detection and avoidance testing

c) Path planning algorithm validation

d) Load capacity and stability testing

e) Battery performance verification

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2. Testing Environment Requirements

a) Temperature: 20°C ± 2°C

b) Humidity: 45% - 55% RH

c) Illumination: 500-750 lux

d) Test surface variations as per Specification Sheet TD-2024-003

5. DOCUMENTATION REQUIREMENTS

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1. Quality Control Records

a) Inspection checklists completion

b) Test result documentation

c) Non-conformance reports

d) Corrective action records

e) Calibration certificates

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2. Digital Documentation System

a) Real-time data logging

b) Electronic signature capture

c) Automated timestamp recording

d) Secure data storage and backup

6. NON-CONFORMANCE HANDLING

1. Any deviation from specified parameters shall trigger:

a) Immediate production hold

b) Quality control supervisor notification

c) Root cause analysis

d) Corrective action implementation

e) Re-inspection requirements

7. CERTIFICATION AND RELEASE

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1. Final Quality Certification requires:

a) Completion of all checkpoint inspections

b) Verification of test results within specified parameters

c) Documentation review and approval

d) Quality control supervisor sign-off

8. REVISION AND CONTROL

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1. This document shall be reviewed annually and updated as required to mai

a) Industry standards

b) Regulatory requirements

c) Company quality objectives

d) Product specifications

9. LEGAL COMPLIANCE

1. This document complies with:

a) ISO 9001:2015 requirements

b) Applicable ANSI/RIA R15.06 standards

c) CE marking requirements

d) UL certification standards

AUTHORIZATION

APPROVED AND ADOPTED by NaviFloor Robotics, Inc.

By:

Dr. Sarah Chen

CEO & Co-founder

By:

Richard Torres

Chief Operating Officer

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DISCLAIMER