MATERIAL HANDLING SAFETY REQUIREMENTS

MATERIAL HANDLING SAFETY REQUIREME

NaviFloor Robotics, Inc.

Effective Date: January 15, 2024

Document ID: MSR-2024-001

1. PURPOSE AND SCOPE

1. This Material Handling Safety Requirements document ("Requirem

2. These Requirements apply to all Company employees, contractors

2. DEFINITIONS

1. "AMR System" means the Company's autonomous mobile robots, i

2. "Operating Environment" refers to any facility where Company AMR

3. "Safety Zone" means the designated area around an AMR where h

3. GENERAL SAFETY REQUIREMENTS

1. Certification Requirements

a) All personnel operating AMR Systems must complete Company-ap
certification training.

b) Certification must be renewed annually and documented in the Com
compliance database.

c) Site supervisors must maintain current records of all certified opera

2. Pre-Operation Inspection

a) Visual inspection of AMR components before each shift

b) Verification of LiDAR sensor functionality

c) Confirmation of emergency stop system operation

d) Assessment of battery charge levels and charging system integrity

3. Operating Environment Standards

a) Minimum aisle width of 1.5x AMR width plus 24 inches

b) Floor surface maintained free of debris and obstacles

c) Proper lighting levels (minimum 50 foot-candles at floor level)

d) Clear marking of AMR travel paths and restricted zones

4. SPECIFIC OPERATIONAL PROTOCOLS

1. Load Handling

a) Maximum load weight: 1,500 pounds per AMR unit

b) Load must be centered and secured per Company specifications

c) Height restrictions: maximum 72 inches including carrier platform

d) Load stability verification required before movement initiation

2. Traffic Management

a) Maximum AMR speed: 4.5 mph in open areas, 2.5 mph in confined

b) Minimum separation distance between AMRs: 15 feet

c) Human traffic right-of-way protocols must be observed

d) Automated speed reduction in high-traffic zones

5. EMERGENCY PROCEDURES

1. Emergency Stop Protocols

a) Red emergency stop buttons must remain unobstructed

b) System-wide shutdown procedures must be posted at control statio

c) Monthly testing of emergency stop functionality required

2. Incident Response

a) Immediate reporting of all safety incidents to shift supervisor

b) Documentation using Company incident report form (Form SF-101)

c) Investigation protocol implementation within 24 hours

d) Corrective action plan development within 72 hours

6. MAINTENANCE AND INSPECTION

1. Scheduled Maintenance

a) Daily operational checks by certified operators

b) Weekly comprehensive inspection by qualified technicians

c) Monthly preventive maintenance per manufacturer specifications

d) Quarterly system-wide safety audit

2. Documentation Requirements

a) Maintenance logs maintained in NaviFleet(TM) platform

b) Inspection records retained for minimum 3 years

c) Safety audit reports filed with Quality Assurance department

7. COMPLIANCE AND ENFORCEMENT

1. All violations of these Requirements must be reported to the Safety

2. Violations may result in:

a) Immediate suspension of operation privileges

b) Mandatory retraining

c) Disciplinary action up to termination

d) Potential legal liability

8. AMENDMENTS AND UPDATES

1. These Requirements shall be reviewed annually by the Company's

2. Updates will be communicated through the Company's standard no

9. ACKNOWLEDGMENT

The undersigned acknowledges receipt and understanding of these R

Name: 7 -

Title:

Date:

Signature:

10. CERTIFICATION

These Requirements are hereby adopted and approved by:

/s/ Richard Torres

Richard Torres

Chief Operating Officer

NaviFloor Robotics, Inc.

Date: January 15, 2024