OSHA COMPLIANCE DOCUMENTATION - ROBOTIC SYSTEMS

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NaviFloor Robotics, Inc.

Last Updated: December 15, 2023

Document Reference: OSHA-2023-R17

1. PURPOSE AND SCOPE

1. This documentation establishes NaviFloor Robotics, Inc.'s ("Company") c

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2. This documentation covers all robotic systems manufactured, deployed, as
2. APPLICABLE STANDARDS AND REGULATIONS
The Company's robotic systems comply with the following OSHA standard
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29 CFR 1910.212 (General Requirements for All Machines)
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29 CFR 1910.147 (Control of Hazardous Energy)
29 CFR 1910.333 (Selection and Use of Work Practices)
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ANSI/RIA R15.06-2012 (Industrial Robots and Robot Systems Safety Requi

3. ROBOTIC SYSTEM SAFETY FEATURES

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1. Emergency Stop Systems
-
Redundant emergency stop circuits on each AMR unit
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Wireless emergency stop capability through central control system
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Maximum response time of 300 milliseconds for all stop command
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Compliance with Performance Level 'e' per ISO 13849-1
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2. Collision Avoidance Systems

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Multi-layer LiDAR detection zones (2m warning, 1m protective field)
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360-degree perception coverage
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Dynamic speed adjustment based on environmental conditions
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Automatic deceleration in human-occupied zones
3. Safety-Rated Monitored Stop
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Automated pause when humans enter collaborative workspace
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Resume operations only after defined clearance parameters are met

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Safety-rated soft axis and space limiting

4. RISK ASSESSMENT AND MITIGATION

 $1. \ The \ Company \ conducts \ comprehensive \ risk \ assessments \ for:$

Each new AMR model prior to deployment

System software updates affecting safety parameters

New deployment environments

Modified operational parameters

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2. Risk Assessment Documentation
-
Maintained for 5 years from assessment date
-
Updated annually or upon significant system modifications
-
Available for OSHA inspection upon request
5. TRAINING AND CERTIFICATION

1. Required Personnel Training

Initial operator safety training (8 hours minimum)

- - 6 Annual refresher training (4 hours minimum)
Emergency response procedures
Maintenance safety protocols
2. Training Documentation
Digital records maintained in Company's LMS
Certification tracking and expiration monitoring

Compliance with 29 CFR 1910.147(c)(7)

6. MAINTENANCE AND INSPECTION

- 1. Scheduled Maintenance
- Monthly safety system verification
- Quarterly comprehensive safety audit
- Semi-annual firmware safety updates
- Annual third-party safety certification
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2. Documentation Requirements

8 - Maintenance logs retained for 3 years - Inspection checklists with safety-critical items - Non-conformance reports and resolution records - Calibration certificates for safety sensors 7. INCIDENT REPORTING AND INVESTIGATION
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1. All safety-related incidents must be:
Property describes 24 hours
Reported within 24 hours

Investigated within 72 hours

Documented in the Company's Safety Management System

Reviewed by Safety Committee within 5 business days

2. OSHA Reporting Requirements

Immediate reporting of fatalities (within 8 hours)

Reporting of hospitalizations within 24 hours

Maintenance of OSHA 300 logs

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Annual submission of OSHA 300A summaries

8. COMPLIANCE VERIFICATION

1. Internal Audits

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Quarterly safety compliance audits

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Documentation review and validation

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Employee interview protocols

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Corrective action tracking

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2. External Certification

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Annual third-party safety certification

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OSHA consultation program participation

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Industry safety standard conformity assessment

9. CERTIFICATION

The undersigned hereby certifies that all robotic systems operated by NaviFl Robotics, Inc. comply with applicable OSHA regulations and safety standard of the date below.

By: _
Richard Torres
Chief Operating Officer
NaviFloor Robotics, Inc.

By: _
Elena Kovacs, Ph.D.
Chief Research Officer

10. DISCLAIMER

NaviFloor Robotics, Inc.

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