

OSHA COMPLIANCE REPORT FOR ROBOTIC OPERATIONS

OSHA COMPLIANCE REPORT FOR ROBOTIC

Polar Dynamics Robotics, Inc.

Reporting Period: January 1, 2023 - December 31, 2023

Report Date: January 11, 2024

Document Reference: PDR-OSHA-2023-001

1. EXECUTIVE SUMMARY

This report documents Polar Dynamics Robotics, Inc.'s ("PDR") comp
applicable Occupational Safety and Health Administration ("OSHA") r

pertainiḡ to robotic operations at our facilities located at 2850 Innova Drive, Dover, Delaware and 475 Cold Storage Way, Minneapolis, Min assessment covers our BlueCore(TM) autonomous mobile robot ("AM manufacturing, testing, and deployment operations.

2. SCOPE OF ASSESSMENT

1. Facilities Evaluated

-

Primary Manufacturing Facility (Dover, DE)

-

Cold Environment Testing Laboratory (Dover, DE)

-

Midwest Distribution and Service Center (Minneapolis, MN)

2. Operational Areas Reviewed

-

AMR Assembly Lines

-

Cold Chamber Testing Facilities (-40 F to 32 F)

-

Robot Maintenance Stations

-

Battery Charging Stations

-

Software Integration Labs

-

Employee Training Facilities

3. COMPLIANCE STATUS

1. General Industry Standards (29 CFR 1910)

-

****Fully Compliant**** with Subpart O (Machinery and Machine Guarding)

-

****Fully Compliant**** with Subpart S (Electrical Safety)

-

****Fully Compliant**** with Subpart D (Walking-Working Surfaces)

2. Robotics-Specific Standards

-

****Fully Compliant**** with ANSI/RIA R15.06-2012 (Industrial Robots and Robot Systems)

-

****Fully Compliant**** with ISO 10218-1:2011 (Robot Safety Requirements)

-

****Fully Compliant**** with ISO 13849-1:2015 (Safety of Machinery)

4. SAFETY CONTROL MEASURES

1. Engineering Controls

-

Perimeter guarding systems with interlocked gates

-

Emergency stop systems (Category 0 and 1)

-

Safety-rated monitored stops

-

Speed and separation monitoring

-

Light curtains and pressure-sensitive safety mats

-

Thermal protection systems for cold environment operations

2. Administrative Controls

-

Standard Operating Procedures (SOPs) for all robotic operations

-

Lock-out/Tag-out procedures

-

Regular safety audits and inspections

-

Incident reporting and investigation protocols

-

Environmental monitoring systems

5. TRAINING AND CERTIFICATION

1. Employee Training Programs

-

Initial safety orientation (8 hours)

-

Robot-specific safety training (16 hours)

-

Cold environment safety training (8 hours)

-

Annual refresher courses (4 hours)

-

Emergency response training (4 hours)

2. Documentation and Records

-

Training records maintained for all employees

- - 7 -

Certification tracking system implemented

-

Regular competency assessments conducted

-

Training material updates logged

6. INCIDENT HISTORY AND RESOLUTION

1. Reportable Incidents (2023)

-

Zero (0) fatalities

-

Zero (0) lost-time injuries

-

One (1) near-miss incident (resolved)

-

Two (2) minor first-aid cases

2. Corrective Actions Implemented

-

Enhanced perimeter guarding protocols

-

Updated emergency stop system testing procedures

-

Revised cold environment acclimation procedures

-

Additional operator training modules

7. REGULATORY INSPECTIONS

1. OSHA Inspections

-

Last inspection date: September 15, 2023

-

Zero (0) citations issued

-

Two (2) recommendations received and implemented

2. Internal Audits

-

Quarterly safety audits completed

-

Monthly equipment inspections conducted

-

Weekly safety committee meetings held

8. COMPLIANCE RECOMMENDATIONS

1. Short-term Actions (0-6 months)

-

Update emergency response procedures for new BlueCore(TM) models

-

Enhance cold environment warning systems

-

Implement additional safety sensors in testing areas

2. Long-term Initiatives (6-12 months)

-

Upgrade perimeter guarding systems

-

Implement advanced motion tracking technology

- - 11 -

Enhance automated safety monitoring systems

9. CERTIFICATION

This report accurately reflects the OSHA compliance status of Polar Dynamics Robotics, Inc.'s operations as of the reporting date. All assessments were conducted in accordance with applicable federal and state regulations.

Prepared by:

/s/ Jennifer Martinez, CSP

Director of Environmental Health and Safety

Polar Dynamics Robotics, Inc.

Reviewed by:

/s/ Michael Thompson

Corporate Counsel

Polar Dynamics Robotics, Inc.

10. DISCLAIMERS

This report is confidential and proprietary to Polar Dynamics Robotics. The information contained herein is intended solely for internal use and regulatory compliance purposes. While every effort has been made to ensure accuracy, conditions may change after the date of this report. This document should not be construed as legal advice or a guarantee of future compliance status.

[END OF REPORT]

