

SAFETY COMPLIANCE DOCUMENTATION - FREEZER OPERATIONS

SAFETY COMPLIANCE DOCUMENTATION - I

Polar Dynamics Robotics, Inc.

Effective Date: January 15, 2024

Document Reference: PDR-SAF-2024-001

1. PURPOSE AND SCOPE

1. This Safety Compliance Documentation ("Documentation") establishes
2. This Documentation applies to all Company employees, contractors

2. DEFINITIONS

1. "Cold Environment" means any controlled environment maintained
2. "BlueCore(TM) System" refers to the Company's proprietary cold-re
3. "Safety Protocol" means the comprehensive set of procedures, che
4. "Qualified Personnel" means individuals who have completed the C

3. SAFETY REQUIREMENTS

1. Personnel Requirements
 - a) All personnel must complete Cold Environment Safety Training bef
- freezer facilities

- b) Minimum two-person team requirement for any maintenance activities
- c) Mandatory use of Company-approved cold-weather PPE
- d) Current safety certification must be maintained and documented

2. Equipment Requirements

- a) AMRs must undergo pre-deployment cold-environment certification
- b) BlueCore(TM) System diagnostics must be performed every 48 hours
- c) Emergency stop systems must be tested daily
- d) Battery systems must maintain minimum 40% charge capacity

3. Facility Requirements

- a) Emergency exits must remain clear and accessible
- b) Temperature monitoring systems must be operational
- c) Backup power systems must be maintained

- d) Communication systems must function in cold environments

4. OPERATIONAL PROCEDURES

1. Pre-Operation Checks

- a) System diagnostic verification
- b) Navigation sensor calibration
- c) Emergency stop system testing
- d) Communication system verification
- e) Battery charge level confirmation

2. Operating Parameters

- a) Maximum operational speed: 2.5 meters per second
- b) Minimum separation distance: 1.5 meters

c) Maximum payload capacity: 1,500 kg

d) Temperature range: -30 C to 0 C

3. Emergency Procedures

a) AMR shutdown protocols

b) Personnel evacuation procedures

c) Emergency response coordination

d) Incident reporting requirements

5. MAINTENANCE AND INSPECTION

1. Scheduled Maintenance

a) Weekly system diagnostics

b) Monthly mechanical inspection

- c) Quarterly software updates
- d) Semi-annual safety certification

2. Documentation Requirements

- a) Maintenance logs
- b) Inspection records
- c) Incident reports
- d) Training certifications

6. COMPLIANCE AND REPORTING

1. Regulatory Compliance

- a) OSHA standards adherence
- b) ISO 10218-1:2011 compliance

c) ANSI/RIA R15.06-2012 requirements

d) Local safety regulations

2. Reporting Requirements

a) Monthly safety performance reports

b) Quarterly compliance audits

c) Annual safety review

d) Incident investigation documentation

7. LIABILITY AND INDEMNIFICATION

1. The Company shall not be liable for any damages resulting from fa

2. Operators assume responsibility for ensuring compliance with all sa

3. Any modifications to safety protocols must be approved in writing by the Safety Committee.

8. AMENDMENTS AND UPDATES

1. This Documentation may be updated periodically to reflect new safety information.
2. All amendments must be approved by the Company's Safety Committee.

ACKNOWLEDGMENT

The undersigned acknowledges receipt and understanding of this Safety Documentation and agrees to comply with all requirements contained herein.

Signature

Printed Name

Title

Date

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Approved by:

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Dr. Elena Frost

CEO, Polar Dynamics Robotics, Inc.

Dr. James Barrett

Chief Robotics Officer

Date: January 15, 2024

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