

REMOTE OPERATION PROTOCOL DOCUMENT

Polar Dynamics Robotics, Inc.

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Document Version: 2.4

Classification: Confidential

1. PURPOSE AND SCOPE

1. This Remote Operation Protocol Document ("Protocol") establishes the mandatory procedures and safety requirements for remote operation of Polar Dynamics Robotics, Inc. ("Company") autonomous mobile robots ("AMRs") in temperature-controlled environments.

2. This Protocol applies to all Company AMRs equipped with IceNav(TM) navigation systems operating in environments below 0 C (32 F), including but not limited to cold storage facilities, industrial freezers, and pharmaceutical cold chain applications.

2. DEFINITIONS

1. "Remote Operation" means the control, monitoring, or manipulation of AMRs through the Company's secure remote access platform.

2. "Authorized Operator" means personnel who have completed Company certification requirements and maintain current authorization status.

3. "Critical Event" means any occurrence that triggers automated safety protocols or requires immediate human intervention.

4. "Cold Zone" means any operational environment maintained below 0 C (32 F).

3. AUTHORIZATION REQUIREMENTS

1. Remote operation privileges shall only be granted to Authorized Operators who have:

- a) Completed the Company's 40-hour certification program
- b) Passed all required safety and operational assessments
- c) Maintained current certification status through quarterly evaluations
- d) Signed the Company's Remote Operation Liability Agreement

2. Authorization status shall be reviewed quarterly and may be revoked for:

- a) Safety violations
- b) Protocol non-compliance
- c) Failure to complete required continuing education
- d) Extended periods of operational inactivity

4. OPERATIONAL PROCEDURES

1. Pre-Operation Requirements

- a) System integrity verification
- b) Environmental condition assessment
- c) Communication link stability confirmation
- d) Safety system status verification
- e) Thermal management system check

2. Active Operation Protocols

- a) Continuous monitoring of AMR vital systems
- b) Real-time temperature monitoring
- c) Regular communication checks
- d) Documentation of operational parameters
- e) Compliance with maximum continuous operation periods

3. Emergency Procedures

- a) Immediate implementation of safety protocols
- b) Communication with on-site personnel
- c) System shutdown procedures if required
- d) Incident documentation and reporting

5. SAFETY REQUIREMENTS

1. Mandatory Safety Systems

- a) Redundant emergency stop capabilities
- b) Multi-layer collision avoidance
- c) Thermal protection systems

- d) Fail-safe communication protocols
- e) Automated system health monitoring

2. Environmental Requirements

- a) Minimum visibility standards
- b) Maximum operational temperature ranges
- c) Surface condition requirements
- d) Network connectivity specifications

6. COMPLIANCE AND DOCUMENTATION

1. Required Records

- a) Operational logs
- b) Maintenance records
- c) Incident reports
- d) Authorization documentation
- e) Training certifications

2. Audit Requirements

- a) Quarterly internal audits
- b) Annual third-party safety audits
- c) Regular compliance reviews
- d) Documentation retention for 5 years

7. LIABILITY AND INDEMNIFICATION

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

- a) Unauthorized modifications to AMR systems
- b) Operation by non-authorized personnel
- c) Operation outside specified parameters
- d) Failure to follow safety protocols

2. Operators agree to indemnify the Company against claims arising from protocol violations.

8. AMENDMENTS AND UPDATES

1. This Protocol may be amended by the Company with 30 days' notice to Authorized Operators.
2. Emergency safety updates may be implemented immediately with subsequent notification.

9. EXECUTION

IN WITNESS WHEREOF, the undersigned acknowledges receipt and understanding of this Protocol.

Authorized Operator:

Name:

Title:

Date:

Company Representative:

Name:

Title:

Date:

10. APPROVAL

APPROVED BY:

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Dr. Elena Frost

Chief Executive Officer

Polar Dynamics Robotics, Inc.

—

Dr. James Barrett

Chief Robotics Officer

Polar Dynamics Robotics, Inc.

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