

OPERATIONS DOCUMENT 407

STANDARD OPERATING PROCEDURES FOR AUTONOMOUS MOBILE ROBOT DEPLOYMENT AND MAINTENANCE

Effective Date: January 1, 2024

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1. PURPOSE AND SCOPE

1. This Operations Document 407 ("Document") establishes the mandatory procedures and protocols for the deployment, operation, and maintenance of Polar Dynamics Robotics, Inc. ("Company") autonomous mobile robots ("AMRs") in temperature-controlled environments ranging from -40 C to +25 C.
2. This Document applies to all Company personnel involved in AMR operations, including but not limited to field technicians, deployment specialists, maintenance engineers, and operational supervisors.

2. DEFINITIONS

1. "IceNav System" means the Company's proprietary cold-environment navigation and operation platform.
2. "Critical Operating Parameters" means the set of environmental and performance metrics that must be maintained for safe AMR operation.
3. "Deployment Zone" means any customer facility or operational area where Company AMRs are installed and operated.
4. "Thermal Management Protocol" means the Company's standardized procedures for maintaining optimal AMR operating temperature in extreme environments.

3. PRE-DEPLOYMENT PROCEDURES

1. Site Assessment Requirements

- 1.1. A comprehensive site survey must be conducted by qualified Company personnel prior to any

AMR deployment.

1.2. Environmental conditions must be documented using Form OPS-201, including:

- a) Temperature mapping of all operational zones
- b) Floor surface analysis
- c) RF interference measurements
- d) Lighting conditions assessment
- e) Traffic pattern analysis

2. IceNav System Calibration

2.1. Each AMR must undergo full system calibration specific to the deployment environment.

2.2. Calibration parameters must be verified and documented using the Company's proprietary CalibrationPro(TM) software.

4. OPERATIONAL PROTOCOLS

1. Temperature Monitoring and Management

1.1. AMR thermal management systems must be monitored continuously during operation.

1.2. Operating parameters must remain within specifications detailed in Technical Bulletin TB-2023-07.

2. Navigation System Requirements

2.1. IceNav System must maintain minimum accuracy of 98.5% in all operating conditions.

2.2. Weekly calibration checks must be performed and documented.

5. MAINTENANCE REQUIREMENTS

1. Scheduled Maintenance

1.1. Preventive maintenance must be performed according to the following schedule:

- a) Daily visual inspections
- b) Weekly sensor calibration
- c) Monthly actuator performance testing

d) Quarterly full system diagnostic

e) Annual certification renewal

2. Emergency Maintenance

2.1. Emergency response procedures must be initiated within 30 minutes of any critical system alert.

2.2. All emergency maintenance actions must be documented using Form OPS-405.

6. SAFETY PROTOCOLS

1. All maintenance personnel must complete Company safety certification program before accessing AMR systems.

2. Emergency shutdown procedures must be tested monthly and documented.

3. Safety compliance reports must be submitted quarterly to the Company's Safety Review Board.

7. DOCUMENTATION AND REPORTING

1. Required Documentation

1.1. All operational activities must be logged in the Company's central documentation system.

1.2. Maintenance records must be retained for a minimum of five (5) years.

8. COMPLIANCE AND AUDIT

1. Internal audits of operational procedures must be conducted quarterly.

2. External compliance reviews must be performed annually by certified third-party inspectors.

9. MODIFICATIONS AND UPDATES

1. This Document may be modified only with written authorization from the Company's Chief Operations Officer.

2. All modifications must be documented and communicated to relevant personnel within 24 hours.

10. LEGAL DISCLAIMER

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APPROVAL AND EXECUTION

APPROVED AND ADOPTED this 1st day of January, 2024.

POLAR DYNAMICS ROBOTICS, INC.

By: _

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Chief Operations Officer

ATTEST:

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Chief Financial Officer