EQUIPMENT DEPLOYMENT PLAN

GLACIER CHAIN DISTRIBUTION PROGRAM

POLAR DYNAMICS ROBOTICS, INC.

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1. INTRODUCTION

1 This Equipment Deployment Plan ("Plan") is established by Polar Dynamics Robotics, Inc., a Delaware corporation ("Company"), to govern the systematic deployment of IceNav-enabled Autonomous Mobile Robots ("Equipment") within cold chain distribution facilities.

2 This Plan shall serve as the controlling document for all Equipment deployments conducted under the Glacier Chain Distribution Program ("Program").

2. DEFINITIONS

1 "Deployment Site" means any temperature-controlled facility designated for Equipment installation.

2 "Equipment" means the Company's autonomous mobile robots, including:

a) ColdBot Series 3000 units

b) FrostNav navigation modules

c) ThermalGuard charging stations

d) Associated control systems and peripherals

3 "Operating Environment" refers to controlled temperature zones ranging from ambient to -40 C.

3. DEPLOYMENT PREREQUISITES

1 Site Assessment Requirements:

a) Complete thermal mapping of facility

b) RF interference analysis

c) Floor load capacity verification

d) Emergency system integration assessment

e) Network infrastructure evaluation

2 Documentation Requirements:

a) Facility certification of compliance with IceNav specifications

b) Environmental safety compliance verification

c) Integration authorization from facility management

d) Local regulatory clearances

4. DEPLOYMENT PROCEDURES

1 Phase I - Pre-Installation

a) Equipment staging and cold-acclimation (72 hours minimum)

b) System configuration and facility mapping

c) Emergency override programming

d) Thermal management system calibration

2 Phase II - Installation

a) Physical deployment of navigation beacons

b) Charging station installation

c) Network integration

d) Initial movement testing

e) Safety system verification

3 Phase III - Validation

a) Full-range motion testing

b) Load capacity verification

c) Emergency stop system validation

d) Temperature transition testing

e) Network redundancy confirmation

5. OPERATIONAL PARAMETERS

1 Equipment shall maintain operational integrity within specified thermal ranges:

a) Standard operations: -30 C to +25 C

b) Extended operations: -40 C to +30 C

c) Charging operations: -25 C to +25 C

2 Performance Metrics:

a) Navigation accuracy: 5cm at all operating temperatures

b) Battery life: 12 hours minimum at -30 C

c) Charging cycle: Maximum 45 minutes

d) Load capacity: 500kg standard, 750kg maximum

6. SAFETY PROTOCOLS

1 Emergency Procedures:

a) Automated shutdown in case of system failure

b) Manual override capabilities at designated stations

c) Remote shutdown capability via secure network

d) Automated temperature monitoring and adjustment

2 Safety Zones:

a) Human interaction zones

b) Restricted operation areas

c) Charging station exclusion zones

d) Temperature transition buffer zones

7. MAINTENANCE AND SUPPORT

1 Scheduled Maintenance:

a) Weekly system diagnostics

b) Monthly mechanical inspection

c) Quarterly software updates

d) Semi-annual full system optimization

2 Technical Support:

a) 24/7 remote monitoring

b) On-site technical support within 4 hours

c) Emergency replacement units available within 24 hours

8. COMPLIANCE AND REPORTING

1 The Company shall maintain detailed records of:

a) Deployment procedures

b) Safety incidents

c) Maintenance activities

d) Performance metrics

e) Environmental conditions

2 Monthly reporting requirements include:

a) Operational efficiency metrics

b) Safety compliance verification

c) Environmental impact assessment

d) System optimization recommendations

9. PROPRIETARY RIGHTS

1 All Equipment, software, and associated intellectual property remain the exclusive property of the Company.

2 Confidentiality requirements apply to all deployment documentation and procedures.

10. AUTHORIZATION

This Equipment Deployment Plan is authorized and approved by:

Dr. Elena Frost

Chief Executive Officer

Polar Dynamics Robotics, Inc.

Dr. James Barrett

Chief Robotics Officer

Polar Dynamics Robotics, Inc.

Date: January 15, 2024