PDR-OPS-018 ARCTIC DEPLOYMENT TEAM SAFETY PROTOCOL

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Classification: CONFIDENTIAL

1. PURPOSE AND SCOPE

- 1. This Arctic Deployment Team Safety Protocol ("Protocol") establish
- 2. This Protocol applies to all Company employees, contractors, and

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- 1. "Arctic Deployment Team" or "ADT" means Company personnel sp
- 2. "Deployment Zone" means any customer facility or testing environr
- 3. "Safety Officer" means the designated ADT member responsible for

3. MANDATORY SAFETY EQUIPMENT

1. Personal Protective Equipment (PPE)

Cold-rated protective suits (rated to -40 C)

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Insulated safety boots with non-slip soles

- 2 Double-layer insulated gloves
 Arctic-grade face protection
 Emergency thermal blankets
 Personal temperature monitoring devices
2. Communication Equipment
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Two-way radio with extended battery

Backup communication device

Emergency beacon	
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Facility intercom access codes	
3. Emergency Equipment	
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First aid kit with cold-specific supplies	
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Portable heater unit	
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Chemical hand warmers	
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Emergency exit mapping device	

4. DEPLOYMENT PROCEDURES

- 1. Pre-Deployment Requirements
- a) Medical clearance for cold environment work
- b) Completion of Arctic Safety Training Program
- c) Equipment certification check
- d) Team briefing and role assignment
- e) Weather and facility condition assessment
- 2. Deployment Time Limitations
- a) Maximum continuous exposure: 45 minutes
- b) Mandatory warm-up break: 15 minutes
- c) Maximum cumulative daily exposure: 4 hours
- d) Minimum team size: 3 personnel
- 3. Safety Monitoring

- a) Continuous vital sign monitoring
- b) 15-minute radio check-ins
- c) Real-time temperature logging
- d) Buddy system enforcement

5. EMERGENCY PROCEDURES

- 1. Medical Emergency Response
- a) Immediate evacuation protocol
- b) Emergency medical service contact procedure
- c) Facility security notification process
- d) Incident reporting requirements
- 2. Equipment Malfunction Response

- a) AMR@mergency shutdown procedure
- b) Backup power implementation
- c) Manual override protocols
- d) Technical support escalation process
- 3. Facility Emergency Response
- a) Power failure procedures
- b) Ventilation system failure protocol
- c) Emergency exit routes
- d) Muster point locations

6. TRAINING AND CERTIFICATION

1. Required Certifications

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Arctic Environment Safety Certification

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Cold Weather First Aid Certification

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BlueCore(TM) Emergency Response Training

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Facility-Specific Safety Orientation

2. Renewal Requirements

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Annual certification renewal

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Quarterly safety refresher training

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Bi-annual medical evaluation

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Monthly equipment operation verification

7. COMPLIANCE AND DOCUMENTATION

- 1. Required Documentation
- a) Deployment authorization forms
- b) Safety equipment inspection logs
- c) Team member certification records
- d) Incident reports and resolution documentation
- 2. Compliance Monitoring
- a) Weekly safety audit requirements

- b) Montgly equipment inspection schedule
- c) Quarterly protocol review process
- d) Annual compliance assessment

8. LIABILITY AND ACKNOWLEDGMENT

- 1. All ADT members must acknowledge and accept the inherent risks
- 2. Company maintains appropriate insurance coverage for arctic depl
- 3. This Protocol shall be reviewed and updated annually or as require

9. AUTHORIZATION

This Protocol is authorized and approved by:

Dr. Elena Frost

Chief Executive Officer

Polar Dynamics Robotics, Inc.

Sarah Nordstrom

Chief Operating Officer

Polar Dynamics Robotics, Inc.

Date: January 15, 2024

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