ARCTIC ENVIRONMENTAL PROTECTION STANDARDS

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Polar Dynamics Robotics, Inc.

Effective Date: January 15, 2024

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1. PURPOSE AND SCOPE

- 1. This document establishes mandatory environmental protection sta
- 2. These standards apply to all Company products, employees, contra

2. DEFINITIONS

- 1. "Arctic Environment" means any operational area characterized by
- a) Temperatures below -20 C (-4 F)
- b) Presence of permafrost
- c) Proximity to sensitive Arctic ecosystems
- d) Indigenous communities' traditional use areas
- 3. "Environmental Impact" encompasses direct and indirect effects on

2. "BlueCore(TM) Technology" refers to Company's proprietary cold-e

- a) Air quality
- b) Soil composition
- c) Water systems

- d) Wildlife habitats
- e) Local flora and fauna

3. ENVIRONMENTAL PROTECTION REQUIREMENT

- 1. Operational Limitations
- 1.1. AMRs must maintain minimum 500-meter distance from identified
- 1.2. Operations must cease when visibility falls below 50 meters
- 1.3. Maximum ground pressure shall not exceed 3.5 kPa in permafros
- 2. Emission Controls
- 2.1. Zero direct emissions requirement for all AMR operations
- 2.2. Battery systems must incorporate double-containment technology
- 2.3. Thermal signatures must remain below 40 C at external surfaces

3. Noiseു Regulations
3.1. Maximum operational noise level of 45 dB at 10 meters
3.2. Ultrasonic frequencies restricted to prevent wildlife disruption
3.3. Active noise cancellation required for all mechanical systems

4. MONITORING AND COMPLIANCE

- 1. Environmental Monitoring Systems
- 1.1. Continuous monitoring of:

Ground temperature

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Surface impact metrics

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Electromagnetic emissions

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Acoustic signatures

- 1.2. Real-time data transmission to Company's Environmental Contro
- 2. Reporting Requirements
- 2.1. Monthly environmental impact assessments
- 2.2. Quarterly compliance audits
- 2.3. Annual comprehensive environmental review

5. EMERGENCY PROCEDURES

- 1. Environmental Incident Response
- 1.1. Immediate shutdown protocol for environmental anomalies

- 1.2. Automated containment systems activation
- 1.3. Mandatory reporting within 4 hours of incident detection
- 2. Remediation Requirements
- 2.1. Site restoration to pre-incident conditions
- 2.2. Independent third-party verification of remediation
- 2.3. Documentation of corrective actions

6. TRAINING AND CERTIFICATION

- 1. Required Personnel Training
- 1.1. Arctic environmental awareness certification
- 1.2. Wildlife interaction protocols
- 1.3. Emergency response procedures

- 2. Certification Renewal
- 2.1. Annual recertification required
- 2.2. Practical assessment components
- 2.3. Documentation of completed training

7. COMPLIANCE AND ENFORCEMENT

- 1. The Company's Chief Sustainability Officer shall oversee compliant
- 2. Violations may result in:
- 2.1. Immediate operational suspension
- 2.2. Mandatory retraining
- 2.3. Financial penalties as per service agreements

8. AMENDMENTS AND UPDATES

- 1. These standards shall be reviewed annually and updated as neces
- 1.1. New environmental regulations
- 1.2. Technological advances
- 1.3. Operational experience
- 1.4. Stakeholder feedback

9. AUTHORIZATION

This document is authorized 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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