

WORKPLACE TEMPERATURE SAFETY GUIDELINES

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Polar Dynamics Robotics, Inc.

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1. PURPOSE AND SCOPE

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1. These Workplace Temperature Safety Guidelines ("Guidelines") establish

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2. These Guidelines apply to all Company employees, contractors, visitors, and

2. DEFINITIONS

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1. "Cold Work Environment" refers to any workspace maintained at or below

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2. "Ultra-Low Temperature Environment" refers to any workspace maintained

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3. "Exposure Period" means the continuous duration during which personnel

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4. "PPE" means Personal Protective Equipment required for safe operation in

3. TEMPERATURE MONITORING AND CONTROL

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1. The Company shall maintain calibrated temperature monitoring systems in

a) Digital displays visible from workspace entrances

b) Automated logging at 5-minute intervals

c) Alert systems for temperature deviations

d) Backup power systems for critical monitoring equipment

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2. Temperature logs shall be maintained for a minimum of three (3) years and

4. EXPOSURE LIMITS AND WORK ROTATION

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1. Maximum Exposure Periods:

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Cold Work Environment: 4 hours continuous; 6 hours total per shift

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Ultra-Low Temperature Environment: 1 hour continuous; 3 hours total per shift

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2. Mandatory Rest Periods:

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15-minute warm-up break after each continuous exposure period

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30-minute warm-up break between multiple exposure periods

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Access to heated break rooms maintained at 68-72°F (20-22°C)

5. PERSONAL PROTECTIVE EQUIPMENT

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1. Required PPE for Cold Work Environments:

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Insulated coveralls (minimum R-value 4.0)

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Cold-resistant gloves

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Insulated safety boots

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Thermal headwear

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2. Additional PPE for Ultra-Low Temperature Environments:

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Face protection

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Double-layer insulated coveralls

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Emergency thermal blankets

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Personal temperature monitoring devices

6. TRAINING REQUIREMENTS

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1. All personnel shall complete initial and annual refresher training on:

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Cold environment safety protocols

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PPE usage and inspection

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Emergency procedures

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Recognition of cold stress symptoms

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First aid for cold-related injuries

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2. Training records shall be maintained in the Company's HR management system.

7. EMERGENCY PROCEDURES

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1. Emergency Exits:

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Clearly marked emergency exits in all temperature-controlled areas

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Battery-backed emergency lighting

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Panic hardware on all exit doors

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2. Emergency Response:

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First aid stations with cold-specific medical supplies

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Emergency communication devices

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Automated external defibrillators (AEDs)

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Emergency response team on all shifts

8. COMPLIANCE AND ENFORCEMENT

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1. The Company's Environmental Health and Safety (EHS) Department shall

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Conduct monthly safety audits

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Review incident reports

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Update procedures as needed

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Maintain compliance documentation

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2. Violations of these Guidelines may result in disciplinary action up to and including termination.

9. REVIEW AND UPDATES

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1. These Guidelines shall be reviewed annually by the EHS Department and the Safety Committee.

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Changes in applicable regulations

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New safety research

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Incident investigation findings

- - 10 -

Technological improvements

10. LEGAL DISCLAIMER

These Guidelines are intended to complement, not replace, applicable OSHA regulations and other legal requirements. The Company reserves the right to modify these Guidelines at any time. Nothing in these Guidelines creates a contract of employment or alters the at-will employment relationship.

APPROVAL AND IMPLEMENTATION

APPROVED BY:

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