

EMERGENCY RESPONSE PLAN FOR ARCTIC FACILITIES

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Classification: CONFIDENTIAL

1. PURPOSE AND SCOPE

1. This Emergency Response Plan ("Plan") establishes protocols and

2. This Plan applies to all PDR facilities operating in environments below

2. DEFINITIONS

1. "Critical System Failure" means any malfunction of the BlueCore(T

2. "Emergency Condition" means any situation that poses immediate

a) Fire or explosion

b) Structural failure

c) Power loss exceeding 30 minutes

d) Multiple simultaneous AMR malfunctions

e) Hazardous material release

f) Medical emergency

g) Severe weather event

3. EMERGENCY RESPONSE TEAM

1. Each facility shall maintain an Emergency Response Team ("ERT")

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Site Operations Manager

-

Safety Coordinator

-

Technical Lead

-

Medical Response Officer

-

Communications Officer

2. At least one ERT member must be present during all operational ho

4. EMERGENCY PROCEDURES

1. Initial Response

- a) Activate facility-wide emergency notification system
- b) Contact appropriate emergency services
- c) Initiate AMR emergency shutdown protocol
- d) Secure facility perimeter
- e) Account for all personnel

2. AMR-Specific Procedures

- a) Execute BlueCore(TM) Emergency Override Protocol
- b) Implement redundant control systems
- c) Initiate remote diagnostics
- d) Deploy backup power systems

- e) Secure robot positioning data

3. Evacuation Procedures

- a) Primary evacuation routes shall be maintained clear of ice and snow
- b) Secondary routes must be verified weekly
- c) Emergency supplies maintained at designated safe zones
- d) Headcount procedures implemented at assembly points

5. COMMUNICATION PROTOCOLS

1. Internal Communications

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Emergency radio channel: Channel 1 (461.125 MHz)

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Backup communication system: Satellite phones

- - 5 -

Emergency notification system activation

2. External Communications

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Emergency Services: 911

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Corporate Emergency Hotline: 1-800-PDR-EMRG

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Environmental Protection Agency: [CONTACT]

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State Environmental Agencies: [CONTACTS]

6. EQUIPMENT AND RESOURCES

1. Required Emergency Equipment

-

Backup generators (72-hour capacity)

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Emergency lighting systems

-

First aid stations

-

Fire suppression systems

-

Chemical spill containment kits

-

Arctic survival gear

-

Emergency communications equipment

2. Equipment Maintenance

-

Monthly inspection schedule

-

Quarterly testing requirements

-

Annual certification process

-

Documentation requirements

7. TRAINING AND DRILLS

1. Required Training

-

Initial emergency response training

- - 8 -

Annual refresher courses

-

Specific role-based training

-

Cold weather survival training

-

AMR emergency protocols

2. Emergency Drills

-

Monthly facility evacuation drills

-

Quarterly emergency scenario simulations

-

Annual full-scale emergency exercise

8. DOCUMENTATION AND REPORTING

1. Incident Documentation

-

Initial incident report within 24 hours

-

Full investigation report within 7 days

-

Corrective action plan within 14 days

-

Regulatory compliance documentation

2. Plan Maintenance

- - 10 -

Annual review and update

-

Quarterly procedure validation

-

Change management documentation

9. LEGAL COMPLIANCE

1. This Plan complies with:

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OSHA 29 CFR 1910.38

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EPA Emergency Planning requirements

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State and local emergency planning regulations

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Corporate safety standards

10. AUTHORIZATION

This Emergency Response Plan is hereby adopted and approved:

Dr. Elena Frost

Chief Executive Officer

Polar Dynamics Robotics, Inc.

Sarah Nordstrom

Chief Operating Officer

Polar Dynamics Robotics, Inc.

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