

MAINTENANCE SCHEDULE - AUTOMATED FREEZER SYSTEMS

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Polar Dynamics Robotics, Inc.

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1. GENERAL PROVISIONS

1 This Maintenance Schedule ("Schedule") establishes the required m

2 This Schedule shall be incorporated by reference into all Service Le

2. DEFINITIONS

1 "Critical Components" means the BlueCore(TM) navigation system,

2 "Maintenance Window" means the designated period during which s

3 "Qualified Technician" means an individual certified by PDR to perfo

3. SCHEDULED MAINTENANCE REQUIREMENTS

1 Daily Inspections

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Visual inspection of chassis integrity

-

Battery charge level verification

- - 2 -

Navigation sensor calibration check

-

Operating temperature log review

-

Error code analysis and documentation

2 Weekly Maintenance

-

BlueCore(TM) system diagnostic scan

-

Thermal seal integrity verification

-

Drive system lubrication

-

Sensor cleaning and alignment

-

Software version confirmation

3 Monthly Service

-

Full system performance analysis

-

Battery capacity testing

-

Navigation accuracy validation

-

Thermal management system inspection

-

Firmware updates as required

- - 4 -

Mechanical stress point examination

4 Quarterly Overhaul

-

Complete disassembly and inspection

-

Replacement of wear components

-

Full calibration of all systems

-

Load testing under maximum stress

-

Safety system certification

-

Documentation update and compliance review

4. MAINTENANCE PROCEDURES

- 1 All maintenance activities shall be performed by Qualified Technicians
- 2 Maintenance records must be logged in PDR's digital maintenance system
- 3 Parts replacement shall utilize only PDR-certified components meeting OEM specifications
- 4 Any deviation from standard maintenance procedures requires written approval from the PDR Manager

5. ENVIRONMENTAL REQUIREMENTS

- 1 Maintenance activities shall be performed in temperature-controlled environments
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Ambient temperature: -5 C to +20 C

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Humidity: <65%

-

Air particulate level: ISO Class 8 or better

2 Emergency maintenance may be performed in operating environment

6. DOCUMENTATION REQUIREMENTS

1 Required maintenance records include:

-

Service date and time

-

Technician identification

- - 7 -

Maintenance actions performed

-

Parts replaced or serviced

-

Test results and measurements

-

Environmental conditions

-

Next scheduled service date

2 Records shall be maintained for a minimum of five (5) years from the

7. COMPLIANCE AND SAFETY

1 All maintenance activities must comply with:

-

OSHA safety requirements

-

PDR safety protocols

-

Client facility safety requirements

-

Applicable industry standards

-

Local regulatory requirements

2 Personal protective equipment appropriate for sub-zero environment

8. WARRANTY IMPLICATIONS

1 Failure to adhere to this Maintenance Schedule may void equipment

2 PDR reserves the right to inspect maintenance records and refuse v

9. AMENDMENTS

1 PDR may update this Schedule upon thirty (30) days written notice t

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Technical improvements

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Safety requirements

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Regulatory changes

-

Performance optimization requirements

10. AUTHORIZATION

This Maintenance Schedule is authorized and approved by:

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Dr. James Barrett

Chief Robotics Officer

Polar Dynamics Robotics, Inc.

Date: _

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Sarah Nordstrom

Chief Operating Officer

Polar Dynamics Robotics, Inc.

Date: -11 -

