

PDR-OPS-027 FACILITY CLIMATE CONTROL STANDARDS

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Effective Date: January 1, 2024

Document Version: 3.1

Classification: Confidential - Internal Use Only

1. PURPOSE AND SCOPE

- 1. This document establishes mandatory climate control standards and
- 2. These standards apply to all PDR owned, leased, or operated facilities

2. DEFINITIONS

1. "Critical Testing Areas" means designated zones within PDR facilities
2. "Temperature-Controlled Zones" refers to any facility area maintained
3. "BlueCore(TM) Testing Environment" means specialized chambers

3. FACILITY TEMPERATURE REQUIREMENTS

1. Manufacturing Areas

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Primary Assembly: 68 F ± 2 F (20 C ± 1 C)

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Electronics Integration: 72 F ± 1 F (22 C ± 0.5 C)

- - 2 -

Quality Control: 70 F ± 2 F (21 C ± 1 C)

2. Testing Facilities

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Standard Testing Zones: 65 F to 75 F (18 C to 24 C)

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Cold Environment Simulation: -4 F to 32 F (-20 C to 0 C)

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Extreme Condition Testing: -40 F to -4 F (-40 C to -20 C)

3. Storage Areas

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Component Storage: 65 F to 75 F (18 C to 24 C)

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Battery Storage: 60 F to 70 F (15.5 C to 21 C)

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Finished Product Storage: 55 F to 75 F (13 C to 24 C)

4. HUMIDITY CONTROL STANDARDS

1. Manufacturing Areas: 45% - 5% relative humidity
2. Testing Facilities: 30% to 60% relative humidity
3. Storage Areas: 40% - 10% relative humidity

5. MONITORING AND CONTROL SYSTEMS

1. Required Equipment

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Digital temperature and humidity monitoring systems

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Automated HVAC control systems

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Backup environmental control units

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Emergency power systems for climate control

2. Monitoring Protocols

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Continuous 24/7 temperature and humidity monitoring

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Automated alerts for out-of-range conditions

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Data logging at 5-minute intervals

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Monthly calibration verification

6. COMPLIANCE AND DOCUMENTATION

1. Record Keeping

-

Maintain digital logs for 3 years

-

Document all system maintenance

-

Record any environmental control incidents

-

Track corrective actions taken

2. Reporting Requirements

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Monthly compliance reports

-

Quarterly system performance reviews

-

Annual facility audit reports

-

Incident investigation documentation

7. EMERGENCY PROCEDURES

1. Climate Control System Failure

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Immediate notification to Facility Manager

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Implementation of backup systems

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Protection of temperature-sensitive equipment

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Documentation of incident and response

2. Power Failure Protocol

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Activation of backup power systems

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Priority power allocation to critical areas

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Equipment shutdown procedures

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Emergency ventilation protocols

8. MAINTENANCE AND INSPECTION

1. Scheduled Maintenance

-

Weekly system checks

-

Monthly comprehensive inspections

-

Quarterly preventive maintenance

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Annual system overhaul

2. Quality Assurance

-

Regular calibration of monitoring equipment

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Validation of control systems

-

Third-party compliance audits

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Documentation of all maintenance activities

9. RESPONSIBILITY AND AUTHORITY

1. The Facility Manager shall:

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Ensure compliance with these standards

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Maintain required documentation

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Coordinate maintenance activities

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Report violations and incidents

2. The Quality Assurance Department shall:

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Conduct regular audits

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Review compliance reports

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Approve corrective actions

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Update standards as needed

10. AMENDMENTS AND REVIEWS

1. This document shall be reviewed annually and updated as necessary

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Changes in manufacturing requirements

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New testing protocols

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Updated regulatory requirements

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Technological improvements

11. APPROVAL AND EXECUTION

APPROVED AND ADOPTED by the undersigned authorized representative

Dynamics Robotics, Inc.

Date: January 1, 2024

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Sarah Nordstrom

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