**BBSE 4.0-Back-up Battery Check on Blood Bank Storage Equipment**

1. Principle

All temperature monitoring systems located on blood bank storage equipment are equipped with a battery back-up in the event that a power failure occurs. Batteries should be checked quarterly to ensure that the monitoring system will function as designed.

# General Policies

1. Battery checks will be performed quarterly.

# Specimen Collection and Preparation

N/A

# Equipment

1. Monitored Blood Bank Refrigerator
2. Monitored Blood Bank Freezer
3. Monitored Platelet Incubator

# Supplies

N/A

# Reagents

N/A

## Quality Control

N/A

## Safety

Refer to Chemical Hygiene and Blood Borne Pathogen Plan for Memorial Hospital Laboratory.

## Procedure

1. For all Jewett refrigerators and freezers
	1. Press the “Battery Test” button on the front control panel to initiate test. Observe the following:
		1. Digital display
		2. Temperature LED
		3. Power failure LED
		4. Audible alarm
		5. Main laboratory alarm board
		6. Hospital operator
		7. Battery low light
	2. Press the “Reset” button on the front control panel to cancel test.
	3. Observe the indicator light in the temperature chart area for acceptability.
2. For the Forma UltraLow Freezer
	1. Access the freezer menu by entering the security code.
	2. To test the charge of the freezer battery:
		1. Press the Mode key until Configuration indicator is illuminated.
		2. Press the right arrow until SYS BAT TEST is displayed in the message window.
		3. Press Enter to initiate the test. TESTING BATT will display in the message window.
	3. To test the charge of the back up system (BUS) battery:
		1. Press the Mode key until Configuration indicator is illuminated
		2. Press the right arrow until BUS BATT TEST is displayed in the message window.
		3. Press Enter to initiate the test. TESTING BATT will display in the message window.
		4. Press Mode key to exit test program.
3. For the Helmer Platelet Incubator
	1. Observe the indicator light in the temperature chart area for acceptability.

## Reporting Results

1. Jewett Refrigerators and Freezers acceptable results:
	1. Audible alarm sounds in the Blood Bank
	2. Audible alarm sounds on the laboratory main alarm board
	3. Hospital operator call with an alarm
	4. Power failure LED is illuminated
	5. Indicator light for the temperature chart is constant green
2. Forma UltraLow Freezer acceptable results:
	1. BATT GOOD will be displayed in message window for system battery check.
	2. BBAT GOOD will be displayed in message window for backup system battery check.
3. Helmer Platelet Incubator acceptable results:
	1. Indicator light for the temperature chart is constant green.
4. If unacceptable results are obtained:
	1. Replace battery and repeat test.
	2. If repeat testing remains unacceptable, notify plant operations and supervisor.

## References

1. Jewett Refrigerator Operator Manual, Revision 4
2. Jewett Freezer Operator Manual, Revision 1
3. Forma UltraLow Freezer Operator Manual, Revision E
4. Helmer Platelet Incubator Operator Manual, Version N

**PROCEDURE AND FORM CHANGE CONTROL**

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| Title: Back-up Battery Check on Blood Bank Storage Equipment |
| Written | **Validated** | **Path Review** | **Review** | **Effective** | **Reason for Revision** |
| Date | **By** | **Date** | **By** | **Date** | **By** | **Date** | **By** | **Date** | **By** |
| **2/15/12** | **PAB** | **3/25/12** | **GJM** |  |  |  |  |  |  | **SOP consolidation** |
| **Revised** |  |  |  |  |  |  |  |  |  |  |
| **10/27/14** | **JLH** |  |  |  |  |  |  |  |  | **Removal of BBR3 from SOP and forms. Assigned number and version to SOP and forms.** |
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Location of any copy(s) of the procedure:

**Out of use:**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Reason:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**