STANDARD OPERATING PROCEDURES

DIVISION OF COMPARATIVE MEDICINE UNIVERSITY OF SOUTH FLORIDA

SOP#: 1154 Date Issued: 7/12 Date Revised: New Page 1 of 2

TITLE: DEMA® Mixrite Model 577 Proportioning Pump

SCOPE: Animal Care Personnel

RESPONSIBILITY: Facility Manager, Animal Care Personnel, Maintenance Support

and Cage Wash Personnel

PURPOSE: To Outline Proper Procedures for Use of the DEMA® MixRite

Pump to Dilute Decon-Spore 200

I. PURPOSE

 To describe to use, maintenance, and calibration of a DEMA Mixrite proportioning pump used to dilute Decon-Spore 200 for sanitization of floors within the animal facility.

II. RESPONSIBILITY

- 1. It is the responsibility of the Facility Manager to ensure that equipment is appropriately maintained in good working order, and calibrated.
- 2. It is the responsibility of the Facility Manager to ensure all staff using this equipment are adequately trained in the use of Decon-Spore dilutor.
- 3. It is the responsibility of all staff using the Decon-Spore Dilutor to read and understand this procedure and wear the appropriate personal protective equipment (PPE) while doing so.

III. PROCEDURE

- The DEMA® Mixrite proportioning pump allows a chemical product to be pumped at a preset constant mix ratio of a flow range of 0.09 to 11 GPM. The unit consists of a water inlet, a pickup tube to pull the chemical into the mixing unit, and an outlet to dispense the diluted chemical.
- 2. During installation the pump is calibrated to **dispense 5-6 ml of Decon-Spore 200 per gallon of water** discharged.
- 3. Decon-Spore 200 is used in animal rooms, procedural areas, and facility hallways to sanitize floors.
- 4. **Decon-Spore 200 is considered a strong oxidizer and corrosive**. Consequently, it must be used in a well ventilated areas and **PPE is required when handling**

SOP# 1154 DEMA Mixrite Pumps Effective 7/12 Page 2 of 2

concentrate (i.e., rubber gloves, eye protection and mask. A face shield is recommended when performing procedures that may cause splashes). **Avoid/skin contact, inhalation, and ingestion** particularly when handling concentrate.

- 5. Prior to placing the suction tube into a new gallon of Decon-Spore 200 the calibration of the unit must be verified it is dosing accurately.
 - a. While wearing the appropriate PPE the suction tube is carefully removed from the empty Decon-Spore container.
 - b. The suction tube is placed in a 50ml conical tube filled with water to the 35 ml mark.
 - c. Turn dispenser/hose on and fill a mop bucket to the 4 gallon mark.
 - d. Total volume of water removed from the 50 ml conical tube divided by 4 equals the average milliliters dispensed/gallon. Record this dose rate and the date on the new Decon-Spore container with a permanent marker.
 - e. If the average amount of water dispensed is not between 5-6 ml/gallon, notify the Facility Manager that the dilutor must be re-calibrated.
- 6. Decon-Spore 200 is corrosive and over time the seals/orifices will need to be replaced. If the unit cannot be calibrated to dispense 5-6ml /gallon the unit is replaced.
- 7. To prolong the proper functioning of the unit, all dilutors are flushed with fresh water at the end of the day.

IV. SAFETY CONSIDERATION

- 1. Decon-Spore 200 will burn skin or eyes. USE CAUTION WHEN WORKING WITH. If splashed on skin, rinse area using clean running water immediately. If splashed into eyes; rinse eye with eye wash/eyewash bottle.
- 2. Always wear a mask, eye protection, and rubber gloves when using concentrated Decon-Spore 200. A face shield is recommended.
- 3. Be careful not to splash the diluted Decon-Spore during filling mop buckets and when mopping floors.
- 4. Report any accidents to your supervisor immediately.

V. REFERENCES

1. <u>Information on installation, adjusting, and parts can be found at:</u> http://www.demaeng.com/wp-content/uploads/parts/1872.pdf

Date: