Title: OPERATION OF CHLORINE INJECTOR SYSTEM

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1.0 OBJECTIVE:

To describe methods for maintenance and operation of the Chlorine Injector System.

2.0 HEALTH AND SAFETY

When operating the chlorine injector system appropriate laboratory attire is required. Appropriate laboratory attire includes scrubs, lab coat, goggles and disposable gloves.

3.0 PERSONNEL/TRAINING/RESPONSIBILITIES

Personnel who have not been trained in these procedures must schedule training with a Laboratory Animal Care Supervisor.

4.0 PROCEDURES FOR OPERATION

4.1 The chlorine injector system is located in the Clean Cage room, #130A.

4.2 In the chlorinated water storage tank, add two cups of bleach, then turn on the “Tank Fill” valve and add two gallons of water (the tank has measured increments on the front of it). This is a 15:1 water/bleach dilution. Fresh solution should be made each day of use.

4.3 Attach a coil water hose to the cage/rack watering system to be cleaned and then attach the other end of the hose to the injector system. Open all of the water valves on the cage/rack system and slowly turn on the “Water” valve.

4.4 Turn on the pump to begin flushing with the bleach solution by setting the switch on the pump controller to “Chlorinated Water”. Prime air out of the pump by opening the red valve on top of the pump. Observe the flow of water from the overflow tube in the chlorinated water tank and when there appears to no longer be any air in the water from the tube close the valve. The system is now pumping chlorinated water through the cage/rack system. Allow to run for 5 minutes. Reset switch on pump controller to “Plain Water”.

4.5 Allow rinse for 5 minutes. Turn off water at the “Water” valve.

4.6 Slowly turn on the “Air” valve and allow to run for 2 minutes. Turn off air. If cage is to be placed in storage, disconnect the water coil from the injector system and leave all valves open on cage water system.

4.7 If cage will be returned immediately to service, turn “Water” valve back on, close all but top valves on the cage/rack water system and fill water system. When water flow no longer has air in the water, turn off the water and close the remaining valve on the cage/rack.

4.8 Disconnect the water coil from the injector system and the cage/rack is ready to be placed in the animal room and attached to the central water system.

4.9 If flushing out water coil hoses attach the hose to the injector station and the drain connection for the flushing process.

4.10 Chlorine tank is emptied after use by removing the drain hose on the right side of the tank and allowed to drain. Once tank is empty replace the hose securely on the mounting pin.