

				SOP #: 807.01	_
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Title:	SOP - Use and Maintenance of Personnel Air Shower				
Approvals:					
Attending Veterinarian		Jun	Date: _	8/20/2013	

## 1. Purpose

- 1.1. The intent of this standard operating procedure (SOP) is to describe how to properly use the Terra Universal, Inc. Personnel Air Shower.
- 1.2. This SOP applies to the two Terra Universal, Inc. Personnel Air Showers located in AHC4 V #542 & #543.

#### 2. Responsibility

- 2.1. All ACF staff is responsible for following this SOP.
- 2.2. The Director of the Office of Laboratory Animal Research and facility supervisors must ensure compliance of this procedure and ensure staff is appropriately trained in the execution of this SOP.

## 3. <u>Definitions</u>

- 3.1. ACF Animal Care Facility
- 3.2. Terra Universal, Inc. Personnel Air Showers— all personnel must use to travel to the transgenic area of the facility.

## 4. Guidelines

- 4.1. Reagents/Materials
  - 4.1.1. Not applicable

## 4.2. Equipment

4.2.1. Terra Universal, Inc. Personnel Air Showers

## 4.3. Safety Precautions

4.3.1. All personnel should be wearing required Personal Protection Equipment (PPE) as outlined in ACF SOP 511 throughout the Vivarium.

#### 4.4. Procedures

- 4.4.1. Start-Up
  - 4.4.1.1. Power up the Air Shower
  - 4.4.1.2. At the time, the LCD display should read Shower disabled, press button to enable shower.
  - 4.4.1.3. If the display does not ready Shower ready refer to trouble shooting instructions (4.4.3).
  - 4.4.1.4. Once all items have been checked and verified for correct operation, purge system several times to ensure all debris has been blown out of the wall cavities.
  - 4.4.1.5. The Air Shower is now ready for use.
- 4.4.2. Touchscreen Choices and Pass Code
  - 4.4.2.1. Log-in pass code: 8402
  - 4.4.2.2. Security pass code: 1234
  - 4.4.2.3. "Shower Disabled" -> press to enable
  - 4.4.2.4. "Shower Ready, Please Enter, Log in" -> Press Log In
  - 4.4.2.5. Enter Log-in pass code: "8402"
  - 4.4.2.6. If you wish to set up a cycle time, press "Go To Setup," after logging in.
    - 4.4.2.6.1. Here you can alter cycles, and run diagnostics ("Go To Diag).
    - 4.4.2.6.2. When finished press, "Go To Ready," to return back to the main screen.

### 4.4.3. Air Shower Use

- 4.4.3.1. Enter shower once you see "Door 1 Open"
- 4.4.3.2. Close the door, air shower will begin. Note: There is a red "Emergency Stop" button that you may press if you wish to stop the cycle.
- 4.4.3.3. Once air shower is finished, Door 2 will unlock, and you may proceed to the transgenic area.
- 4.4.3.4. Shut the door, and place second pair of shoe covers onto your feet before proceeding through the transgenic area.

# 4.4.4. Troubleshooting

Problem:	Possible Cause:
	Circuit breaker has tripped
	Disconnect is in the off position
Touchscreen is blank	Plug to touchscreen pulled out or is loose
rouchscreen is blank	Wire in plug has become loose
	24 volt circuit breaker tripped
	Touchscreen has failed
	Switch on touchscreen is off
	Light tubes came loose or have broken
I table de net como ou	Light plug or wire has come loose from control box
Lights do not come on	Light breaker in control panel has tripped
	Light relay has failed
	Light ballast has failed
	Plug to control panel has come loose
Air shower does not leave emergency stop mode	Wire has come out of terminal at the e-stop
even when buttons are pulled out	N.C. e-stop switch has failed
	Lock is turned off, check diagnostics menu
Decaded follows and	Lock is jamming in door frame
Door lock fails to operate	Door switch is not operating or has failed
	Door plug to control panel has come loose
	Sensor plug to control panel has come loose
	Wire has come loose from sensor plug
Shower does not go into cycle when person enters	Sensor has no power
shower	Sensor out of adjustment (use remote control to
	reprogram span)
	Entry door switch not operating
	Motor starter overload tripped (check for proper amp
Shower starts cycle but blowers do not come on	adjustment using dial)
Shower starts cycle but blowers do not come on	Faulty motor starter
	PLC output is loose or has failed
	<ul> <li>Blower output wire from processor has shorted to ground</li> </ul>
Shower starts cycle and keeps running	PLC has failed or program has been erased
Shower starts cycle and keeps running	
	Entered wrong passcode
Cannot access menu and/or diagnostics	Touchscreen is unplugged or bad
carmot access mena ana, or diagnostics	Door(s) are open
	Toggle switch on top of PLC not in run mode

## 5. References

5.1. Terra Universal, Inc. (2010) *Personnel Air Shower Start-Up Instructions, Air Shower Touchscreen Choices and Pass Code,* and *Trouble Shooting Guide*.

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