



ETHYLENE OXIDE STERILIZERS



Environmental
Compliance

COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI)
 RE-INSPECTION (FUI) ARMS COMPLAINT NO:

AIRS ID#: 0251337	DATE: <u>12/9/2011</u>	ARRIVE: <u>12:27 PM</u>	DEPART: <u>12:50 PM</u>
FACILITY NAME: U OF M TISSUE BANK-NW 7TH AVE			
FACILITY LOCATION: 1951 NW 7TH AVE MIAMI 33136-1107			
OWNER/AUTHORIZED REPRESENTATIVE: KENNETH CAPEZZUTO		PHONE: (305)243-3400	
Email: ken.capezzuto@miami.edu		Mobile:	
CONTACT NAME: VAUGHAN MUNRO		PHONE: (305)243-3268	
Email: VMunro@med.miami.edu		Mobile:	
ENTITLEMENT PERIOD: 6/5/2011 / 6/5/2016 (effective date) (end date)			

PART I: INSPECTION COMPLIANCE STATUS (check only one box)

IN COMPLIANCE MINOR Non-COMPLIANCE SIGNIFICANT Non-COMPLIANCE

PART II: CONTROL TECHNOLOGY – Rule 62-213.300 FAC

Vent type(s) at the facility: Aeration Room-- Sterilization Chamber-- Chamber Exhaust--

Sterilization Chamber Vent

Has one of the following emission control devices been installed? Yes-- No--

If **yes**, indicate type below.

Acid-Water Scrubber----- <input type="checkbox"/>	Thermal Oxidation Unit-- <input type="checkbox"/>
Catalytic Oxidation Unit-- <input type="checkbox"/>	Other-- <input type="checkbox"/> _____

(Must submit information to DEP for approval)

Chamber Exhaust Vent

No emission control device. <i>(must use direct measurement in Part III)</i>	<input type="checkbox"/>
Emissions manifolded to sterilization chamber vent control device.	<input type="checkbox"/>
Dedicated emission control device (indicate type below).-----	<input type="checkbox"/>
Acid-Water Scrubber----- <input type="checkbox"/>	Thermal Oxidation Unit-- <input type="checkbox"/>
Catalytic Oxidation Unit-- <input type="checkbox"/>	Other -- <input type="checkbox"/> _____

(Must submit information to DEP for approval)

PART III: MONITORING REQUIREMENTS – Rule 62-213.300 FAC

Has the facility conducted an initial performance test?
(Existing facilities by 6/8/98; new sources within 180 days after startup)----- Yes No

Acid-Water Scrubbers

What process parameter is the facility monitoring to determine compliance?
ethylene glycol concentration--- scrubber liquor tank level--

If the facility is monitoring the scrubber liquor tank level, has a liquid level indicator been installed?----- Yes No

Catalytic/Thermal Oxidation Units

Has the facility installed a temperature sensor that is accurate to within $\pm 10^\circ$ F?---- Yes No

Has the facility verified the accuracy of the temperature sensor?
(must be performed semiannually)----- Yes No

Direct Measurement

Has the facility installed a gas chromatograph?----- Yes No

PART IV: RECORDKEEPING REQUIREMENTS – Rule 62-213.300(3) FAC

Has the facility maintained the following records?

Owner's manuals, designs specifications, and other instructional materials for the sterilization unit and control equipment.----- Yes No

Records of ethylene oxide usage on a 12-month rolling average. ----- Yes No

Records of all initial performance tests, including control efficiency determinations. Yes No

Records of all temperature monitoring. (oxidation units only) ----- Yes No N/A

Records of all ethylene oxide concentration monitoring. (direct measurement only) Yes No N/A

Records of gas chromatograph calibration (direct measurement only) ----- Yes No N/A

Records of scrubber liquor level. (acid-water scrubbers only)----- Yes No N/A

Records of ethylene glycol concentration. (acid-water scrubbers only)----- Yes No N/A

FRANK DELGADO

12/9/2011

Inspector's Name (Please Print)

Date of Inspection

12/2012

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: The Ethylene Oxide Sterilizer will start operating in February 2012. It will hold 60 pounds of ethylene oxide in solid form.

Mr. Doug Steinbach, Materials Management Director took me around the facility and is the contact person at the site.