



# ETHYLENE OXIDE STERILIZERS

## COMPLIANCE INSPECTION CHECKLIST



Environmental Compliance

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

**AIRS ID#:** 0251337 **DATE:** 2/13/2013 **ARRIVE:** 9:53 AM **DEPART:** 10:38 AM  
**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----- Thermal Oxidation Unit--  
 Catalytic Oxidation Unit-- Other-- \_\_\_\_\_

(Must submit information to DEP for approval)

**Chamber Exhaust Vent**

No emission control device. (must use direct measurement in Part III)

Emissions manifolded to sterilization chamber vent control device.

Dedicated emission control device (indicate type below).-----

Acid-Water Scrubber----- Thermal Oxidation Unit--  
 Catalytic Oxidation Unit-- Other -- \_\_\_\_\_

(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

2/13/2013

Inspector’s Name (Please Print)

Date of Inspection

2/2014

Inspector’s Signature

Approximate Date of Next Inspection

**COMMENTS:** THE ETHYLENE OXIDE STERILIZER IS USED ONCE PER DAY. VAUGHAN MUNRO, HAZARDOUS MATERIALS SPECIALIST FROM THE UNIVERSITY OF MIAMI AND DOUG STEINBACH, MATERIALS MANAGEMENT DIRECTOR FROM THE UNIVERSITY OF MIAMI ACCOMPANIED ME IN THE INSPECTION. THE ETHYLENE OXIDE CONSUMED IN 2012 IS 460 POUNDS.

**REVIEWED**  
By Ray Gordon at 8:26 am, Apr 29, 2013