St. Louis City
Ordinance 68657 and
St. Louis University Permit

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St. Louis City Ordinance 68657
Board Bill No. 166
June 21, 2002

Section Six. Definitions

This Section defines key words and expressions used in the Ordinance. The following definitions are in addition to those contained in State Rule 10 CSR 10-6.020, as amended.

23. Open Burning - The burning of any matter in such manner that the products of combustion resulting from the burning are emitted directly into the ambient air without passing through an approved stack, duct, vent or chimney.

29. Refuse - Any combustible waste material containing carbon in a free or combined state, other than liquids or gases.

30. Salvage Operation - Any business, trade, industry or other activity conducted in whole or in part for the purpose of salvaging or reclaiming any product or material including but not limited to metals or chemicals.

34. Trade Waste - Solid, liquid, or gaseous material resulting from construction or the prosecution of any business, trade or industry, or any demolition operation including but not limited to wood, plastics, cartons, grease, oil, chemicals and cinders.

36. Vegetation - Any representative of the plant kingdom including, but not limited to trees, shrubs, grasses, or vegetables, and any anatomical part of these plants including but not limited to leaves, stems, roots, flowers or fruits.

Section Fifteen: Open Burning Restrictions.

A. No person shall cause, suffer, allow or permit the open burning of refuse.

B. No person shall conduct, cause or permit the conduct of a salvage operation by open burning.

C. No person shall conduct, cause or permit the disposal of trade waste by open burning.

St. Louis City Ordinance 68657

D. No person shall cause or permit the open burning of leaves, trees or the byproducts therefrom, grass, or other vegetation.

E. It shall be prima-facie evidence that the person who owns or controls property on which open burning occurs, has caused or permitted said open burning.

City of St. Louis

DEPARTMENT OF HEALTH
AIR POLLUTION CONTROL PROGRAM
1415 NORTH THIRTEENTH STREET
ST. LOUIS, MISSOURI 63106-4424
Office: (314) 613-7300 Fax: (314) 613-7275

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2003 APR 30 AM 10:55
AIR POLLUTION CONTROL PGM

Hon. Francis G. Slay, Mayor
Hugh F. Stallworth MD, MPH
Director of Health

Melba R. Moore, MS
Commissioner of Health

CERTIFIED MAIL 7002-2030-0006-6961-2615
RETURN RECEIPT REQUESTED

April 25, 2003

Tim Hill
Energy Center Director
St. Louis University Hospital
3628 Rutgers St.
St. Louis MO 63110

Permit Matter 03-04-007
Incinerator with W. H. Boiler and Scrubber

RE: Ordinance Update for the State Implementation Plan

Dear Mr. Hill,

In an effort to update the State Implementation Plan, it is necessary to update the ordinance section of Permit Dated September 22, 1992 – *Incinerator with W. H. Boiler & Scrubber.* This permit is incorporated into the SIP.

Permit Matter No. 00-01-004 dated January 31, 2000 from the City of St. Louis Air Pollution Control Program addressed a previous ordinance change when Ordinance 59270 was repealed. Sections of Ordinance 59270 that were equivalent or less stringent than state regulations were eliminated from the ordinance and subsequently removed from the permit. Remaining sections were repealed by and re-incorporated into Ordinance 64749.

All sections of Ordinance 64749 have since been repealed by and re-incorporated into Ordinance 65645. Ordinance No. 64749 Section Nos. 16, 18, 21, 24 and 26 are now Ordinance No. 65645 Section Nos. 14, 16, 19, 22 and 24, respectively. Permit Matter 03-04-007 is administrative only, it adds no new limitations, conditions, or recordkeeping requirements to Permit Dated September 22, 1992 – *Incinerator with W. H. Boiler & Scrubber.*

The Air Pollution Control Programrevises the following to read:

Section II: General Conditions

B. This incinerator must comply with City Ordinance No. 65645 including, but not limited to, Section Nos. 14, 16, 19, 22 and 24.

All other limitations, conditions, and recordkeeping requirements of Permit Dated September 22, 1992 – *Incinerator with W. H. Boiler & Scrubber* remain in effect.

Sincerely,
AIR POLLUTION CONTROL PROGRAM

Eric Brown
Chief of Permitting

CITY OF SAINT LOUIS
DEPARTMENT OF PUBLIC SAFETY
DIVISION OF AIR POLLUTION CONTROL
1220 CARR LANE AVENUE
ST. LOUIS, MISSOURI 63104
(314) 664-7877
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VINCENT C. SCHOEMEHL, JR.
MAYOR

WILLIAM KUEHLING
DIRECTOR OF PUBLIC SAFETY

ARNOLD E. MONTGOMERY
COMMISSIONER

September 22, 1992

Mr. Michael R. Braun, Director
Energy Center
St. Louis University Medical Center
3628 Rutger Avenue
St. Louis, MO 63110

SUBJECT: PERMIT-MEDICAL WASTE INCINERATOR

RE: INCINERATOR WITH W.H. BOILER & SCRUBBER

Dear Mr. Braun:

Permission is hereby granted to the management of St. Louis University to replace and operate the Medical Waste Incinerator at 3628 Rutger Avenue, St. Louis, Missouri subject to the following conditions:

SECTION I: MODIFICATION

A. New incinerator shall be a consumant (Model #CS-325-2) with the heat boiler (Model #4-WH-751-S200) and wet scrubber system (Anderson #2000) as per the application, dated June 1, 1992.

B. The existing incinerator must be removed and replaced with the system as listed in Section I-A.

C. New incinerator system shall be connected to the existing boiler stack per the plan as submitted.

SECTION II: GENERAL CONDITIONS

A. This incinerator must comply with the State Rule 10 CSR 10-6.160 "*Medical Waste and Solid Waste Incinerator.*"

B. This incinerator must comply with City Ordinance #59270 including, but not limited to Sections #10, 13, 14, 32, 39 and 42.

C. The incinerator and scrubber system must operate in accordance with the manufacturer's operating procedures and the performance test.

D. No change in the equipment or operation shall be made which alters the emission into the ambient air or impacts on the air quality without the prior written approval of this division or State.

E. An operating permit shall be issued only if any or all deficiencies of permit conditions and performance test are corrected and approved by this division or the State.

F. A copy of the manufacturer's instructions and operating procedures shall be available on the site.

G. The operator's training certificate must be available to verify requirements of the State rule.

H. This system shall be performance tested as specified in Section IV.

SECTION III: SPECIFIC CONDITIONS

A. No more than 900 lb/hr of medical waste is to be charged to the incinerator at any time. Annual input of medical waste shall not exceed an amount of 3100 tons per year.

B. The particulate emission shall not exceed 0.03 grains per dry standard cubic foot of exhaust gases corrected to seven percent (7%) oxygen.

C. The system shall be operated in such a manner that the emission from the stack will not exceed ten percent (10%) opacity for a period in excess of six (6) minutes in any consecutive sixty (60) minute period.

D. The secondary combustion chamber gases shall be preheated to and maintained at or above one thousand eight hundred (1800) degrees fahrenheit.

E. The charging of waste must be prohibited into the primary chamber prior to achieving one thousand six hundred fifty (1650) degrees fahrenheit in the secondary chamber.

F. Residence time of the gases within the secondary chamber shall be at least one (1) second.

G. The secondary chamber temperature shall be monitored and recorded continuously.

H. The Scrubber System must be in operation prior to charging the medical waste to the incinerator.

I. A failure of scrubber system and operation of emergency bypass shall be reported to the Division of Air Pollution Control within one (1) hour of occurrence during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday. If the failure occurs during non-business hours or on weekends, this Division will be notified by 9:00 a.m. of the first business day following the occurrence.

SECTION IV: PERFORMANCE REQUIREMENTS

A. Within sixty (60) days after charging the medical waste, but not later than one hundred sixty (160) days after initial charge, the applicant shall conduct a Performance Test in accordance with EPA

Methods and furnish this Division with a written result of such performance tests within thirty (30) days after completion of the test.

B. Prior to conducting such a test, a pre-test meeting will be arranged and notification will be given to this Division and the State of Missouri, Department of Natural Resources.

C. A protocol report shall be submitted to this agency and the State for an approval of the performance test thirty (30) days prior to the test date.

D. Written notice of the test date shall be provided to this Division and State, thirty (30) days prior to the test to be performed.

E. The result/test shall include, but not limited to the following:

1. Secondary/primary chamber temperature record.

2. Opacity measurement record.

3. Sample calculation for compliance.

   - Combustion Efficiency (%)
   - Secondary Chamber Residence time (second)
   - Hydrogen Chloride emission rate (ppm & lb/hr)
   - Particulate Emission rate (gr/dscfm & lb/hr)

4. Description of methods including sampling, point selections, etc.

5. Include all the field data test sheets.

6. Operating parameters, charge rate (lb/hr), flow rate, etc.

SECTION V: COMPLIANCE

A. This incinerator shall be performance tested at the start-up as specified in Section IV-Performance Requirements.

B. This incinerator shall be tested as minimum of once every five (5) years per the State rule.

SECTION VI: RECORDKEEPING

Accurate and complete records shall be kept by the owner or operator for the following:

A. Record of the secondary combustion chamber temperature.

B. Amount of charge of waste (ton/day) to the incinerator.

C. Record of incinerator operational time (hour/day).

D. Record of the quantity and type of wastes incinerated.

E. Maintenance record.

F. Record of performance test/results.

G. These records shall be kept for at least three (3) years.

H. These records shall be made available to this agency upon request.

SECTION VII: INSPECTION

A. This division will be allowed to conduct a complete inspection of the system as per the plans and permit application, dated June 1, 1992.

B. The company shall permit this Division to conduct any inspections, tests, observations, etc. as the Division considers to be necessary at any time this system is in operation, and to insure there are no violations of any Local, State or Federal Regulations caused by the operation of this equipment.

C. Notify this Division upon start-up of the incinerator within seven (7) days.

Approved and issued this 3rd day of August, 1992, by the Division of Air Pollution Control, City of St. Louis.

Sincerely,

Arnold E. Montgomery
Commissioner

AEM:jj:335

St. Louis City Ordinance 68657

EPA Rulemakings

CFR: 40 C.F.R. 52.1320(c)

FRM: 77 FR 11748 (2/28/12)

PRM: letter notice (11/23/11)

State Submission: 4/5/11

State Final: 3/31/11

APDB File: MO-303

Description: This administrative revision re-numbers the St. Louis City Code local ordinance from 65645 to 68657.

Ordinance 65645 and St. Louis University

EPA Rulemakings

CFR: 40 C.F.R. 52.1320 (c) and (d)

FRM: 68 FR 68521 (12/9/2003)

PRM: 68 FR 68579 (12/9/2003)

State Submission: 10/15/2003

State Final: 8/28/2003

APDB File: MO-226

Description: This revision rescinded the SIP-approved provisions of the St. Louis city Ordinance No. 64794 and concurrently approved the same, but renumbered, provisions in Ordinance No. 65645. This action also revised Section II: General Conditions, B of the St. Louis University permit to change the reference to "Ordinance 65645."

CFR: 40 C.F.R. 52.1320 (c) and (d)

FRM: 65 FR 64156 (10/26/00)

PRM: 65 FR 64192 (10/26/00)

State Submission: 5/22/00

State Final: 1/31/00

APDB File: MO-167

Description: This new ordinance rescinds the SIP-approved provisions of St. Louis City Ordinance No. 59270 and concurrently approves certain definitions in Section 7 (Definitions) and Section 17 (Open Burning Restrictions) of new ordinance 64749. This action also revised Section II Limitations Part B of the St. Louis University permit to change the reference from "Ordinance 59270" to "Ordinance 64749" and rescinded the permit for Washington University's incinerator.

St. Louis City Ordinance 68657

CFR: 40 C.F.R. 52.1320 (c) (103)

FRM: FR 63 19823 (4/22/98)

PRM: FR 63 19876 (4/22/98)

State Submission: 3/20/97

State Proposal: 9/26/96

State Final: 10/31/96

APDB File: MO-122

Description: This SIP revision eliminates sections of local ordinances covered by equivalent or more stringent Federally approved state rules and retains sections that are not. The EPA approved incinerator permits for St. Louis University and Washington University as part of the SIP in this action.

Difference Between the State and EPA-Approved Regulation

The phrase "other than liquids or gases" in the Refuse definition of Section Six of the St. Louis City Ordinance 65645 has not been approved.