



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY**

**SECTION 111(d)/129 STATE PLAN
FOR HOSPITAL/MEDICAL/INFECTIOUS WASTE
INCINERATORS**

SEPTEMBER 15, 1998

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SECTION 111(d)/129 STATE PLAN FOR HOSPITAL/MEDICAL/INFECTIOUS WASTE INCINERATORS

I. INTRODUCTION/BACKGROUND

On September 15, 1997, the U.S. Environmental Protection Agency (EPA) promulgated New Source Performance Standards (NSPS) for new hospital, medical and infectious waste incinerators (HMIWI) in 40 CFR Part 60, Subpart Ec and Emission Guidelines for existing HMIWI in Subpart Ce. (62 FR 48348, September 15, 1997). The standards and guidelines apply to incinerators that combust any amount of medical, infectious or hospital waste as defined in 40 CFR §60.51c. Each individual existing HMIWI constructed on or before June 20, 1996, must comply with the Subpart Ce requirements. The NSPS requirements apply to all new HMIWI units that began construction after June 20, 1996, or an existing HMIWI unit undergoing modification after March 16, 1998.

Section 129 of the Clean Air Act requires EPA to establish emission limitations for new and existing HMIWI for the following: particulate matter (PM), opacity, sulfur dioxide (SO₂), hydrogen chloride (HCl), nitrogen oxides (NO_x), lead (Pb), cadmium (Cd), mercury (Hg), carbon monoxide (CO) and dioxins and dibenzofurans (dioxin/furans). The HMIWI source category is divided into three subcategories based on the waste burning capacity: small (less than or equal to 200 lb/hr), medium (greater than 200 but less than or equal to 500 lb/hr), and large (greater than 500 lb/hr). Waste burning capacity is determined either by the maximum design capacity or by the "maximum charge rate" established during the most recent performance test. The Subpart Ce requirements do not apply to the following HMIWI units:

1. A combustor that burns only pathological waste, low-level radioactive waste, and/or chemotherapeutic waste as defined in §60.51c, provided the owner or operator of the combustor notifies the State and EPA Administrator of this exemption and provides data documenting that the facility qualifies for this exemption.
2. Any co-fired combustor, as defined in § 60.51c, if the owner or operator of the co-fired combustor notifies PADEP and EPA Administrator of this exemption and provides data documenting that the facility qualifies for this exemption.
3. Any unit required to have a permit under section 3005 of the Solid Waste Disposal Act.
4. Any combustor which meets the applicability requirements under 40 CFR Part 60, Subparts Cb, Ea and Eb.
5. Any pyrolysis unit as defined in 40 CFR §60.51b.
6. Cement kilns firing hospital waste and/or medical/infectious waste.

Section 129(b)(2) of the Clean Air Act requires each State in which a designated HMIWI unit is operating to submit a plan to implement and enforce the guidelines applicable to the HMIWI source category. The procedures for adoption and submittal of State Plans are codified in 40 CFR Part 60, Subpart B. The Section 111(d)/129 State Plan which implements the applicable standards and requirements in 40 CFR Part 60, Subparts B and Ce must be submitted to EPA for approval by September 15, 1998. The EPA Administrator will develop a Federal Plan to implement and enforce the Emission Guidelines if States do not submit an approvable State Plan to EPA within two years after the date of promulgation of the relevant guidelines.

The Section 111(d)/129 State Plan for designated HMIWI facilities in the Commonwealth of Pennsylvania includes the following: federally enforceable emission standards, an inventory of HMIWI units an emission inventory, compliance schedules, testing, monitoring, recordkeeping, and reporting requirements, and provisions for the submittal of annual progress reports to EPA on the progress of compliance and a demonstration of legal authority.

II. PUBLIC PARTICIPATION [40 CFR §60.23(f)]

Prior to submitting the Section 111(d)/129 State Plan for HMIWI to EPA for approval, the Department held three public hearings for the purpose of accepting testimony on the proposed Section 111(d)/129 State Plan. The public hearings were held at several DEP regional offices on the following dates and times:

July 15, 1998 Time: 1:00 p.m.	Southeast Regional Office Main Conference Room 555 North Lane, Suite 6010 Conshohocken, PA 19428
July 16, 1998 Time: 1:00 p.m.	Rachel Carson State Office Building Room 105 400 Market Street Harrisburg, PA 17105
July 21, 1998 Time: 1:00 p.m.	Southwest Regional Office Monongahela Room 400 Waterfront Drive Pittsburgh, PA 15222-4745

As required under 40 CFR §60.23, PADEP provided notice of the date, time and location of the hearings and an opportunity to provide written comments on the State Plan at least 30 days prior to the scheduled date of the hearing. The notice was published in the *Pennsylvania Bulletin* on June 13, 1998 (27 Pa. B. 2728, 6/13/98) and prominently displayed on June 12, 1998, in the following newspapers of general circulation:

1. *Philadelphia Inquirer*
2. *Patriot News*

3. *Pittsburgh-Post Gazette*
4. *Wilkes-Barre Times Leader*
5. *Erie Daily Times*
6. *Williamsport Sun-Gazette*

The Department also provided notice of the date, time and location of each hearing to EPA, local air pollution control agencies and any state in the interstate region whose air quality may be affected by emissions from existing HMIWIs subject to the Subpart Ce requirements. The notice also specified that copies of the proposed Section 111(d)/129 State Plan were available for review in each of PADEP's regional offices described in 25 Pa. Code §121.4 (relating to regional organization of the department).

Persons interested in providing testimony on the proposed Section 111(d)/129 State Plan for designated HMIWI facilities were required to notify PADEP at least 10 days prior to the hearing to reserve an opportunity to provide testimony on the proposed plan. The Department requested that each witness provide three written copies of the oral testimony presented at the hearing. Each public hearing began at 1:00 p.m. (Conshohocken) on July 15th, (Harrisburg) on July 16th and (Pittsburgh) on July 21, 1998. A copy of the testimony provided by Douglas East, Green Tree Services, Inc. is available for review by the public and will be maintained by PADEP for at least 2 years.

Interested persons were also invited to submit written comments on the proposed State Plan to the Department on or before July 31, 1998. In addition to testimony provided at the public hearings, written comments were submitted by Bruce W. Dixon, Director, Allegheny County Health Department, William J. Kesack, IES Engineers and Judith M. Katz, U.S. EPA Region III. The Department prepared a comment and response document that addresses the comments submitted on the proposed HMIWI State Plan. Copies of the public hearing notices, a listing of public hearing attendees, transcripts of the public hearings, written comments and the Comment and Response Document are attached hereto as Appendix B. These records, including the written copies of oral testimony, will be maintained by PADEP for at least 2 years and made available for review by the public.

In accordance with 40 CFR §60.23(f)(1), PADEP will submit the Section 111(d)/129 State Plan for HMIWI to EPA by September 15, 1998. The HMIWI State Plan includes a certification that the public hearings were held in accordance with the criteria specified in 40 CFR §60.23(d). The public hearing certification is attached hereto as Appendix B-2 (relating to public hearing certification).

III. IMPLEMENTATION OF THE STATE PLAN

On December 27, 1997, the Department adopted in their entirety and incorporated by reference the emission guidelines promulgated in 40 CFR Part 60. (See 27 Pa. B. 6809, December 27, 1997). The Emission Guidelines incorporated by reference in 25 Pa. Code §122.3 will serve as the "legally enforceable regulation" for implementation of the Subpart Ce requirements. The emission standards and other applicable requirements including federally enforceable compliance schedules and increments of progress will be enforced through either

Federally enforceable plan approvals, operating permits or Title V operating permits issued under 25 Pa. Code Chapter 127, Subchapters, B, F and G, respectively.

Owners and operators of each existing HMIWI unit constructed on or before June 20, 1996, must demonstrate to the Department that the designated facility is in compliance with all the applicable requirements of the Clean Air Act including “a standard or other requirement governing solid waste incineration” under Section 129 of the Clean Air Act (42 U.S.C.A. §7429). The Department will issue new or revised Federally enforceable state-operating permits (FESOPs) plan approvals or Title V operating permits that incorporate applicable requirements in 40 CFR Part 60, Subpart Ce. The new or revised plan approvals or permits will be developed pursuant to applicable provisions in 40 CFR Part 60, Subparts A, B, Ce, and Ec and will serve as the legally enforceable mechanism to implement the Section 111(d)/129 State Plan for HMIWI facilities. The Federally enforceable permit terms and conditions will be non-expiring and continue in full force and effect until modified by the Department and approved by EPA as a Section 111(d)/129 State Plan revision. Subsequently, plan approval and FESOP terms and conditions will be included in Title V operating permits as “applicable requirements.”

Subpart Ce requirements for each existing designated HMIWI unit will be implemented by the Department as follows:

- A) PADEP will notify the owners or operators of existing designated HMIWI facilities that they must comply with applicable requirements in 40 CFR, Part 60, Subpart A, B, Ce, and Ec within one year after approval of the State Plan by EPA. The Department will provide prior written notice to the owners or operators of existing designated HMIWI facilities requiring them to submit a Title V operating permit application to PADEP within 120 days of the date of the notice. 25 Pa. Code §127.505(a).
- B) Pursuant to 25 Pa. Code §§127.12b (b) and 127.441(b), the Department will incorporate the Subpart Ce requirements for HMIWI into a FESOP, Title V operating permit or plan approval, as appropriate.
- C) Upon completion of the technical review, the PADEP will prepare and publish notice in the *Pennsylvania Bulletin* of action to be taken on the proposed FESOPs, Title V permits or plan approvals in accordance with the public notice requirements set forth in 25 Pa. Code Chapter 127 (relating to construction, modification and reactivation of sources). The Department will also provide notice to the HMIWI owners or operators, the EPA, any state within 50 miles of the facility and any contiguous state whose air quality may be affected by an HMIWI facility. The HMIWI owner/operator will publish notice of the FESOP, Title V operating permit or plan approval on at least 3 separate days in a prominent place and site in a newspaper of general circulation in which the facility is located. (25 Pa. Code §§127.424 (b) and 127.521).
- D) Prior to issuance of a new or revised operating permit, Title V permit or plan approval, PADEP will provide at least a 30-day public comment period, commencing from the date of publication of the proposed action, for the submission of written comments on the proposed FESOP, Title V operating permit or plan approval.

- E) PADEP will submit copies of proposed plan approvals, state operating permits or Title V operating permits which incorporate the Emission Guidelines for HMIWI to EPA along with supporting documentation, including review memoranda prepared by PADEP personnel in accordance with 25 Pa. Code §127.522(f). The Department will not issue a plan approval, state operating permit or Title V permit containing the Emission Guidelines for HMIWI if EPA provides written notification that the FESOP, Title V operating permit or plan approval does not comply with the Clean Air Act or the regulations thereunder.
- F) PADEP will submit to EPA, on an annual basis, a report that details the progress in the enforcement of the State Plan in accordance with 40 CFR §60.25(e). The first progress report will be submitted to EPA one year after approval of the Section 111(d)/129 State Plan for existing HMIWI facilities. The annual progress report, which will also describe the implementation and enforcement measures initiated in Philadelphia County, will include the elements described in 40 CFR §60.25(f).

IV. EMISSION STANDARDS AND OTHER EMISSION LIMITATIONS [40 CFR §60.24]

Emission Limitations [40 CFR §60.33e]

In accordance with Section 129(b)(2) of the Clean Air Act, the Section 111(d)/129 State Plans must include HMIWI emission limitations of particulate matter (PM); metals (cadmium [Cd], lead [Pb], and mercury [Hg]); acid gases (sulfur dioxide [SO₂], nitrogen oxides [NO_x], and hydrogen chloride [HCl]); organic compounds (dioxins and furans); carbon monoxide (CO) that are “at least as protective” as the limitations codified in 40 CFR Part 60, Subpart Ce. In addition to emission limits for the pollutants regulated under the Subpart Ce requirements, the State Plan must include requirements for stack opacity in accordance with 40 CFR §60.33e(c). The current applicable emission limitations are presented in Appendix C. Within one year after EPA approval of the State Plan, no owner or operator of an HMIWI facility shall discharge, or allow to be discharged, to the atmosphere from that HMIWI facility any gases that contain stack emissions in excess of the limits presented in Appendix C. Pursuant to 40 CFR §60.39e(c), the owners or operators of HMIWI facilities that are completing retrofits must comply with the emission limits shown in Appendix C within 3 years after EPA approval of the State Plan or by September 15, 2002, whichever is earlier.

V. INVENTORY FOR DESIGNATED HMIWI FACILITIES [40 CFR §60.25(a)]

In accordance with 40 CFR, Part 60, Subpart B, §60.25(a), the State Plan must include “an inventory of all designated HMIWI facilities including emissions data for the designated pollutants.” The HMIWI source category is divided into small, medium and large subcategories based on the maximum design waste burning capacity of the HMIWI, expressed in pounds per

hour. An HMIWI is considered “small” if the burn capacity is less than or equal to 200 pounds per hour. Any HMIWI with a maximum design burning capacity greater than 200 pounds per hour but less than or equal to 500 pounds per hour is categorized as a “medium” HMIWI. The “large” subcategory for HMIWI is based on a maximum design waste burning capacity of more than 500 pounds per hour.

In the Commonwealth of Pennsylvania, at least 61 existing designated HMIWI units including incinerators located in Philadelphia County may be subject to the Subpart Ce requirements. The designated HMIWI facilities located in Allegheny County will be covered by a separate HMIWI Plan developed, implemented and enforced by the Allegheny County Health Department. The inventory of designated HMIWI facilities includes co-fired combustors and incinerators burning only pathological, low-level radioactive and chemotherapeutic waste as defined in 40 CFR §60.51c. Although co-fired combustors and incinerators burning only pathological, low-level radioactive, or chemotherapeutic waste are exempt from most of the Subpart Ce requirements, these facilities must notify PADEP and the EPA Administrator of a claimed exemption and keep records on a calendar quarter basis as prescribed in 40 CFR §§60.32e(b) and (c). The inventory of designated HMIWI facilities, attached hereto as Appendix D, includes the inventory of sources identified in this Section 111(d)/129 State Plan. Should another source be discovered subsequent to the submittal of this HMIWI State Plan to EPA, there will be no need to reopen this State Plan.

The State Plan does not include any designated HMIWI facility in the “small rural” HMIWI subcategory. In order to be classified as a small rural HMIWI facility, the HMIWI facility must be located more than 50 miles from the boundary of the nearest Standard Metropolitan Statistical Area (as defined in §60.31e) and burn less than 2,000 pounds per week of hospital waste and medical/infectious waste. Following approval of the Section 111(d)/129 State Plan for HMIWI by EPA, any designated HMIWI subsequently classified as a small rural HMIWI facility shall comply with the applicable requirements in Subpart Ce, including compliance, performance, testing, monitoring, inspection, reporting and recordkeeping.

VI. EMISSION INVENTORY FOR DESIGNATED HMIWI FACILITIES

[40 CFR §60.25(a)]

Pursuant to 40 CFR §60.25(a), the Section 111(d)/129 State Plan for designated HMIWI facilities must include an emission inventory for all designated pollutants at existing HMIWI facilities subject to the requirements of 40 CFR Part 60, Subpart Ce. The emission data for each designated pollutant from each HMIWI facility regulated under Subpart Ce is summarized in Appendix E (relating to emissions inventory) of this plan. Appendix E does not include emission inventory data from three (3) exempt co-fired or pathological incinerators that are identified in the HMIWI inventory.

VII. TESTING, MONITORING, RECORDKEEPING, REPORTING AND OTHER REQUIREMENTS

The Section 111(d)/129 State Plan must include testing, monitoring, recordkeeping and reporting requirements for designated HMIWI facilities. The Plan must also require operator

training and qualification criteria, inspection and waste management plan requirements. Therefore, the owner or operators of designated HMIWI facilities must demonstrate compliance with applicable testing, monitoring, recordkeeping and reporting requirements in 40 CFR Part 60, Subparts Ce and Ec.

A. Compliance and Performance Testing [40 CFR §60.37e]

All designated facilities which are subject to the emission limits in Subpart Ce, Table 1 shall comply with the compliance and performance testing requirements in 40 CFR §60.56c, excluding the fugitive emissions testing requirements specified in §60.56c(b)(12) and (c)(3). Small rural HMIWI facilities that meet the criteria established under 40 CFR §60.33e(b) shall comply with the compliance and performance requirements in 40 CFR §60.37e(b)(1-5).

B. Monitoring Requirements [40 CFR §60.37e(c)]

The owner or operator of a designated facility subject to this Section 111(d)/129 State Plan shall demonstrate compliance with the monitoring requirements in 40 CFR Part 60, Subpart Ec, §60.57c. The HMIWI owner/operator shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the maximum and minimum operating parameters listed in Subpart Ec, Table 3 (relating to operating parameters to be monitored and minimum measurement and recording frequencies). Except during periods of startup and shutdown, the devices shall measure and record values for the frequencies listed in Table 3 at all times. The owner or operator of each HMIWI designated facility must also install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of their bypass stack including the date, time and duration.

Pursuant to 40 CFR §60.57c (c), the owner or operator of the HMIWI shall install, calibrate (to manufacturers' specifications), maintain, and operate equipment needed to monitor the site-specific operating parameters developed under §60.56c(i) whenever a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet scrubber is not being used to comply with the emission limits in §60.52c (relating to emission limits).

The owner or operator of the HMIWI facility shall obtain monitoring data at all times during HMIWI operation except when the monitoring equipment malfunctions or when the monitoring equipment is being calibrated, or repaired.

C. Reporting and Recordkeeping Requirements [40 CFR §60.38e]

For approval by EPA, the Section 111(d)/129 HMIWI State Plan must include the reporting and recordkeeping requirements in 40 CFR §§60.58c (b), (c), (d), (e) and (f). The results of fugitive emissions tests by EPA Reference Method 22 required by § 60.58c(b)(2)(ii) and documents produced as a result of siting requirements required by §60.58c(b)(7) are not applicable requirements. The owner or operator of any designated HMIWI facility subject to the State Plan shall comply with applicable reporting and recordkeeping requirements in 40 CFR §§60.58c (b), (c), (d), (e) and (f) and shall maintain the records for at least 5 years.

As required under 40 CFR §60.38e(b), the owners or operators of each small HMIWI subject to the emission limits in §60.33e(b) shall maintain records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 days of an inspection. See 40 CFR §60.38e(b)(1). Any inspection, maintenance and repair information recorded shall be submitted to the Department within 60 days following the year in which the data were collected. The report must be signed by the manager of the designated HMIWI facility. Subsequent reports must be submitted no later than 12 calendar months following the previous submittal. For purposes of complying with Title V operating permit requirements, the reports shall be submitted on a semi-annual basis.

D. Operator Training and Qualification Requirements [40 CFR §60.34e]

The Section 111(d)/129 State Plan for designated HMIWI facilities must include requirements for operator training and qualification at least as protective as the requirements in 40 CFR Part 60, Subpart Ec, §60.53c. Each designated HMIWI facility shall comply with the operator training and qualification requirements in §60.53c and shall have at least one fully trained and qualified HMIWI operator on duty, or available within one hour, when operating the designated facility. The trained and qualified HMIWI operator may operate the designated facility directly or directly supervise one or more HMIWI operators. Each trained and qualified HMIWI operator must meet the requirements specified in 40 CFR §60.53c(c) through (g).

The owner or operator of each designated HMIWI must maintain documentation at the facility that meets the requirements of 40 CFR §60.53c(h). The information shall include the following:

1. A summary of applicable standards;
2. A description of basic combustion theory applicable to HMIWI facilities;
3. Procedures for receiving, handling and charging waste;
4. Startup, shutdown and malfunction procedures for HMIWI facilities and procedures for responding to periodic malfunctions or conditions that may lead to malfunctions;
5. Procedures for operating the HMIWI and associated pollution control systems and as well as procedures for maintaining proper combustion or air supply levels emission levels;
6. Reporting and recordkeeping procedures; and
7. Procedures for handling ash.

The owner or operator of each designated HMIWI facility must establish a program to require all employees at the designated facility, that are involved in the operation of the HMIWI, to review the information described above on an annual basis. The operator training and

qualification requirements shall be met within one year following the date of approval of the State Plan by EPA. 40 CFR §60.39e(e).

E. Waste Management Plan Requirements [40 CFR §60.35e]

Section 60.35e requires that the Section 111(d)/129 State Plan include requirements for a waste management plan that is at least as protective as the requirements in 40 CFR Part 60, Subpart Ec, §60.55c. Accordingly, the owner or operator of a designated HMIWI shall prepare a waste management plan which meets the requirements of §60.55c and shall submit the plan to the Department within 60 days after the initial performance test. In order to reduce the amount of toxic emissions from incinerated waste, the waste management plan shall specify the feasibility and the approach used to separate certain components of solid waste from the health care waste stream. The American Hospital Association publication entitled, "An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities" shall be considered during the development of the waste management plan.

F. Inspection Requirements [60 CFR §60.36e]

Section 60.36e provides that a State Plan must require that each small rural HMIWI that is subject to the emission limits established under §60.33e(b) undergo an initial equipment inspection that is at least as protective as the requirements in 40 CFR §60.36e(a), within one year after approval of State plan. It appears that there are no designated small rural HMIWI facilities in Pennsylvania. However, any small rural HMIWI that is subsequently discovered after the submittal of this State Plan to EPA shall comply with all applicable Subpart Ce requirements, including the inspection provisions in §60.36e (relating to inspection guidelines).

G. Title V Operating Permit Requirements [60 CFR §60.32e(i)]

As required under §60.36e(c), the owners or operators of designated HMIWI shall comply with the Title V operating permit requirements. For designated HMIWI that are not located at major facilities (but subject to the Subpart Ce requirements), a complete Title V operating permit application shall be submitted to the Department with 120 days of receipt of a notice that the Title V application is due, or by September 15, 2000, whichever is earlier. If the incinerator is located at a major facility, the Title V operating permit should have been submitted to PADEP no later than November 27, 1995.

VIII. COMPLIANCE SCHEDULES AND INCREMENTS OF PROGRESS

A. Compliance Schedules

Owners or operators of each designated HMIWI must achieve compliance with the emission limitations according to the compliance schedule prescribed in 40 CFR §60.39e. The owners or operators of designated HMIWI facilities subject to Subpart Ce shall comply with all the Subpart Ce requirements and Section 111(d)/129 State Plan on or before the date one year after EPA approval of the State Plan, regardless of whether a designed facility is identified in the source inventory required by 40 CFR §60.25(a).

If the owner or operator of any designated HMIWI facility intends to install air pollution control equipment to achieve compliance with the Subpart Ce requirements, the facility shall achieve compliance within three years after EPA approval of this State Plan but not later than September 16, 2002. Any owner or operator of a designated HMIWI unit requesting an extension for up to 3 years after EPA approval of the HMIWI State Plan shall submit a petition to PADEP containing the documentation described in 40 CFR §60.39e(d) within 180 days after approval of the State Plan. If an extension is granted, PADEP will include the source-specific compliance schedule in a federally enforceable plan approval, operating permit or Title V operating permit containing the applicable measurable and enforceable increments of progress specified in 40 CFR §§60.21(h) and 60.39e(c). At a minimum, the Department will provide a 30-day comment period and an opportunity for a public hearing prior to finalizing the federally enforceable plan approval, operating permit or Title V operating permit. Any compliance schedule extending more than one year beyond the date of EPA's approval of the State Plan will be included as a source-specific compliance schedule in the finalized plan approval, operating permit or Title V operating permit subsequently submitted to EPA for approval as a revision to the HMIWI State Plan.

The following compliance schedule applies to each designated HMIWI facility which requires more than one year to install pollution control devices to comply with the Subpart Ce requirements:

Final Control Plan:	No later than 6 months after EPA approval of this plan
Contract Award:	No later than 12 months after EPA approval of this plan
Initiate Construction:	No later than 18 months after EPA approval of this plan
Complete Construction:	No later than 33 months after EPA approval of this plan
Initial startup of air	
Pollution device(s):	No later than 33 months after EPA approval of this plan
Initial compliance test(s):	No later than 33 months after EPA approval of this plan
Submit Title V application:	No later than 36 months after EPA promulgation date for emission guidelines (i.e., September 15, 2000)
Final Compliance:	No later than 36 months after EPA approval of this plan or September 15, 2002 whichever is earlier

B. Increments of Progress

At a minimum, FESOPs, Title V operating permits or plan approvals issued by the Department to HMIWI owners or operators will include the following increments of progress:

1. Submitting a final control plan. The final control plan will include any documentation from the source or public describing the controls that the source will use to comply with the emission limitations and other requirements. [§60.21(h)(1)]
2. Awarding of contracts for control systems or process modifications or orders for purchase of components. [§60.21(h)(2)]

3. Initiation of on-site construction or installation of the air pollution control device(s) or process changes. [§60.21(h)(3)]
4. Completion of on-site construction or installation of control equipment or process changes. [§60.21(h)(4)]
5. Final compliance. Any designated HMIWI unit that fails to achieve compliance by the final compliance dates is prohibited from operating the designated HMIWI facility. [§60.21(h)(5)]

The Section 111(d)/129 State Plan contains one set of increments with compliance dates applicable to all HMIWI within the Commonwealth. However, the incremental compliance dates may vary from one HMIWI unit to another to address specific issues relevant to a particular HMIWI unit. In all cases, the enforceable increments of progress will be arranged chronologically, and the compliance dates will be set to ensure full compliance with the applicable requirements as expeditiously as practicable but not later than September 15, 2002.

C. HMIWI Shutdowns

The designated HMIWI facilities subject to the Section 111(d)/129 State Plan must comply with the Subpart Ce requirements as expeditiously as practicable but no later than September 15, 2002. Any HMIWI that intends to shutdown instead of the complying with the Subpart Ce requirements must be identified in the State Plan and shall cease operations no later than one year after EPA approval of the Section 111(d)/129 State Plan for designated HMIWI facilities. The owner or operator of any HMIWI that is planning to shutdown may petition the Department for an extension of more than one year after EPA approval of the State Plan in accordance with the requirements of 40 CFR §60.39e(d). If the petition is granted, the FESOP will include enforceable increments of progress and specify that final compliance may not be later than three years after EPA approval of the State Plan or September 15, 2002, whichever is earlier.

Any owner/operator that intends to restart a shutdown HMIWI, may not restart the unit unless the designated facility meets the requirements of 40 CFR Part 60, Subpart Ce. Prior to restart, all applications, proposed plan approvals, and operating permits issued by the Department for the restarted HMIWI units will be submitted to EPA for review and approval.

IX. STATE PROGRESS REPORTS [40 CFR §60.26(e)]

Pursuant to 40 CFR §60.26(b), the Section 111(d)/129 State Plan for HMIWI must provide for the submission of progress reports to EPA on an annual basis. The annual progress report will describe both PADEP's and the Philadelphia Health Department's progress in the enforcement of the HMIWI State plan. The first progress report concerning designated HMIWI facilities will be submitted to EPA one year after approval of the Section 111(d)/129 State Plan by the Department. This submittal must be included in the annual report required by 40 CFR § 51.321 (relating to annual source emissions and state action report).

As required under 40 CFR §60.25(f) the annual progress report shall include the following information:

1. Enforcement actions initiated against a designated HMIWI facility during the reporting period for the calendar year.
2. Identification of the achievement of any increments of progress required by the plan.
3. If applicable, the identity of any designated facility that has ceased operation during the reporting period.
4. Submission of additional emission data, as necessary, to update previous progress reports.
5. Submission of copies of technical reports on all performance testing conducted on designated HMIWI facilities, complete with concurrently recorded process data.
6. Submission of emissions inventory data for designated HMIWI facilities that were not in operation when the State HMIWI Plan was developed but commenced operations during the reporting period.

X. LEGAL AUTHORITY TO IMPLEMENT THE STATE PLAN [40 CFR §60.26]

Pursuant to 40 CFR §60.26(a), the Section 111(d)/129 State Plan for HMIWI must demonstrate that States have legal authority to implement the plan. The demonstration of legal authority must show that the Commonwealth is authorized to (a) adopt emission standards and compliance schedules applicable to designated facilities; (b) to enforce applicable laws, regulations, standards, compliance schedules and seek injunctive relief; (c) to obtain information necessary to determine whether designated facilities are in compliance with applicable laws and regulations, standards and compliance schedules. The State Plan must also demonstrate that the Commonwealth has sufficient legal authority to require the installation, maintenance and use of emission monitoring devices by the owners and operators of designated HMIWI facilities and to require recordkeeping and reporting including the submission of periodic emission reports. The legal demonstration must also show that sufficient legal authority exists to carry out inspections and to conduct testing of designated HMIWI facilities. A detailed discussion of PADEP's legal authority to implement and enforce the Section 111(d)/129 HMIWI State Plan is attached hereto as Appendix F (relating to legal authority to implement the State Plan). This demonstration of legal authority has been previously submitted to EPA as a component of the State Plans for municipal solid waste landfills and large municipal waste combustors.

On December 27, 1997, the Department amended 25 Pa. Code §122.3 to adopt in their entirety and incorporate by reference, the federal Emission Guidelines promulgated in 40 CFR Part 60 by the EPA Administrator. See 27 Pa. B. 6809. Therefore, the Emission Guidelines which are codified at 25 Pa. Code §122.3 will serve as the legal mechanism to implement the Emission Guidelines. The incorporation of the Emission Guidelines by reference is authorized

under Section 5 of the Air Pollution Control Act. The amendments to § 122.3 were duly promulgated under applicable state law including the Commonwealth Documents Law (45 P. S. §1102 et seq.), Commonwealth Attorneys Act (71 P.S. §§745.1-745.15), and the Regulatory Review Act (71 P.S. §745.1 et seq.). The State Plan will be implemented and enforced through the Department's plan approval, state operating permit and Title V operating permit programs. Copies of Pennsylvania's Air Pollution Control Act (35 P. S. §4001 et seq.) (see Appendix G-1) and applicable regulations in 25 Pa. Code Article III (see Appendix G-2) are included in this submittal in accordance with 40 CFR §60.26(b).

Appendix B-2: PUBLIC HEARING CERTIFICATION

I, _____, on behalf of the Commonwealth of Pennsylvania, Department of Environmental Protection, hereby certify that three public hearings were held prior to adoption of the Section 111(d)/129 State Plan for designated hospital/medical/infectious waste incinerators in accordance with criteria specified in 40 CFR §60.23. I further certify that the State Plan includes a list of witnesses who provided testimony at the hearings and written copies of their testimony.

Dated: _____

Signed: _____
Krishnan Ramamurthy, Chief
Technical Support Section
Division of Permits
Bureau of Air Quality, PADEP

Appendix C: SUMMARY OF EMISSION LIMITS FOR EXISTING HMIWI

Pollutant	Emission limits		
	Small HMIWI	Medium HMIWI	Large HMIWI
Particulate matter (EPA Method 5 or Method 29)	115 mg/dscm (0.05 gr/dscf)	69 mg/dscm (0.03 gr/dscf)	34 mg/dscm (0.015 gr/dscf)
Opacity (EPA Method 9)	10 Percent (6 minutes block Av.)	10 Percent (6 minutes block Av.)	10 Percent (6 minutes block Av.)
Carbon monoxide (EPA Method 10 or Method 10B)	40 ppmv	40 ppmv	40 ppmv
Dioxins/furans (EPA Method 23)	125 ng/dscm total CDD/CDF (55 gr/10 ⁹ dscf) or 2.3 ng/dscm TEQ (1.0 gr/10 ⁹ dscf)	125 ng/dscm total CDD/CDF (55 gr/10 ⁹ dscf) or 2.3 ng/dscm TEQ (1.0 gr/10 ⁹ dscf)	125 ng/dscm total CDD/CDF (55 gr/10 ⁹ dscf) or 2.3 ng/dscm TEQ (1.0 gr/10 ⁹ dscf)
Hydrogen chloride (EPA Method 26)	100 ppmv or 93% reduction	100 ppmv or 93% reduction	100 ppmv or 93% reduction
Sulfur dioxide (testing not required)	55 ppmv	55 ppmv	55 ppmv
Nitrogen oxides (testing not required)	250 ppmv	250 ppmv	250 ppmv
Lead (EPA Method 29)	1.2 mg/dscm (0.52 gr/10 ³ dscf) or 70% reduction	1.2 mg/dscm (0.52 gr/10 ³ dscf) or 70% reduction	1.2 mg/dscm (0.52 gr/10 ³ dscf) or 70% reduction
Cadmium (EPA Method 29)	0.16 mg/dscm (0.07 gr/10 ³ dscf) or 65% reduction	0.16 mg/dscm (0.07 gr/10 ³ dscf) or 65% reduction	0.16 mg/dscm (0.07 gr/10 ³ dscf) or 65% reduction
Mercury (EPA Method 29)	0.55 mg/dscm (0.24 gr/10 ³ dscf) or 85% reduction	0.55 mg/dscm (0.24 gr/10 ³ dscf) or 85% reduction	0.55 mg/dscm (0.24 gr/10 ³ dscf) or 85% reduction

mg/dscm = milligram per dry standard cubic meter,
 ng/dscm = nanogram per dry standard cubic meter,
 gr/dscf = grains per dry standard cubic feet,
 ppmv = parts per million by volume,

CDD/CDF = Dioxins/furans
 ng/10⁹dscf = nanogram per billion dry standard cubic feet
 gr/10³dscf = grains per thousand dry standard cubic feet
 TEQ = toxic equivalency factors

**Appendix D-1: Inventory of Large HMIWI in Pennsylvania
(excluding Allegheny County)**

S.No.	Permit No.	Facility Name	City/County	Capacity
1.	06-301-093A	Bridgeview, Inc.	Birdsboro/Berks	1000 lb/hr
2.	08-301-013A	Packer, Robert Hospital	Sayre/Bradford	700 lb/hr
3.	14-301-031	Pennsylvania State University	State College/Centre	600 lb/hr
4.	21-301-046	Holy Spirit Hospital	Camp Hill/Cumberland	570 lb/hr
5.	22-301-054	Hershey, Milton Medical Center, The	Hershey/Dauphin	1145 lb/hr
6.	25-301-083A	Hamot Medical Center	Erie/Erie	1060 lb/hr
7.	36-301-073	Lancaster General Hospital	Lancaster/Lancaster	1000 lb/hr
8.	36-301-083	Ephrata Community Hospital	Ephrata/Lancaster	550 lb/hr
9.	46-301-185	Pottstown Memorial Medical Center	Pottstown/Montgomery	600 lb/hr
10.	46-301-191	Merck Pharmaceutical Manufacturing	Upper Gwynedd/ Montgomery	1950 lb/hr
11.	46-301-211	Holy Redeemer Hospital	Meadowbrook/ Montgomery	600 lb/hr
12.	46-301-227	Marinari, James, John and Albert	Perkiomenville/ Montgomery	1425 lb/hr
13.	46-301-241	Bryn Mawr Hospital, The	Bryn Mawr/ Montgomery	500 lb/hr
14.	PA 46-0005B	Merck Pharmaceutical Manufacturing	Upper Gwynedd/ Montgomery	3045 lb/hr
15.	47-301-009A	Geisinger Medical Center	Danville/Montour	625 lb/hr
16.	67-301-059	York Hospital	York/York	750 lb/hr
17.	8016	Agnes Hospital	Philadelphia/Philadelphia	573 lb/hr
18.	8034	Einstein Medical Center, North	Philadelphia/Philadelphia	1500 lb/hr
19.	8053	Episcopal Hospital	Philadelphia/Philadelphia	700 lb/hr
20.	8023	Presbyterian Hospital	Philadelphia/Philadelphia	750 lb/hr

Large HMIWI means an HMIWI whose maximum design waste burning capacity is more than 500 pounds per hour; or a continuous or intermittent HMIWI whose maximum charge rate is more than 500 pounds per hour; or a batch HMIWI whose maximum charge rate is more than 4000 pounds per day.

**Appendix D-2: Inventory of Medium HMIWI in Pennsylvania
(excluding Allegheny County)**

S.No.	Permit No.	Facility Name	City/County	Capacity
1.	07-301-024	Altoona Hospital	Altoona/Blair	290 lb/hr
2.	09-301-073A	Grand View Hospital	Sellersville/Bucks	500 lb/hr
3.	15-301-078	Southern Chester County Health Svcs.	West Grove/Chester	300 lb/hr
4.	19-301-012	Bloomsburg Hospital	Bloomsburg/Columbia	230 lb/hr
5.	21-301-048	Carlisle Hospital	Carlisle/Cumberland	500 lb/hr
6.	23-301-085D	Taylor Hospital	Ridley Park/Delaware	300 lb/hr
7.	23-301-114	Riddle Memorial Hospital	Media/Delaware	480 lb/hr
8.	32-301-034	Indiana Hospital	Indiana/Indiana	210 lb/hr
9.	36-301-096	Community Hospital of Lancaster	Lancaster/Lancaster	288 lb/hr
10.	37-301-019	Jameson Memorial Hospital	New Castle/Lawrence	300 lb/hr
11.	38-301-022	Department of Veterans Affairs	Lebanon/Lebanon	300 lb/hr
12.	39-301-074	Allentown Hospital	Allentown/Lehigh	375 lb/hr
13.	40-301-065A	Wilkes-Barre General Hospital	Wilkes-Barre/Luzerne	400 lb/hr
14.	40-301-071	American Red Cross Reg. Blood Ctr.	Hanover/ Luzerne	340 lb/hr
15.	40-301-078	Geisinger Wyoming Valley Med. Ctr.	Wilkes-Barre/ Luzerne	300 lb/hr
16.	46-301-216A*	Smithkline Beecham Pharmaceuticals	King of Prussia/Montgomery	300 lb/hr
17.	46-301-221*	SmithKline Beecham Pharmaceutical	King of Prussia/Montgomery	200 lb/hr
18.	46-301-240**	SmithKline Beecham Pharmaceutical	King of Prussia/Montgomery	450 lb/hr
19.	46-301-266	Rhone-Poulenc Rorer Pharm. Inc.	Upper Providence/ Montgomery	300 lb/hr
20.	46-301-268	North Penn Hospital	Lansdale/Montgomery	500 lb/hr
21.	49-301-016	Sunbury Community Hospital	Sunbury/Northampton	416 lb/hr
22.	58-301-005	Barnes-Kasson County Hospital	Susquehanna/ Susquehanna	250 lb/hr
23.	65-301-052	West Haven Nursing Home	Apollo/Westmoreland	300 lb/hr
24.	65-301-070A	Latrobe Area Hospital	Latrobe/ Westmoreland	968 lb/charge
25.	8070	Fox Chase Cancer Center	Philadelphia/Philadelphia	400 lb/hr
26.	8906	Temple University	Philadelphia/Philadelphia	250 lb/hr

Medium HMIWI means an HMIWI whose maximum design waste burning capacity is more than 200 pounds per hour but less than or equal to 500 pounds per hour; a continuous or intermittent HMIWI whose maximum charge rate is more than 200 pounds per hour but less than or equal to 500 pounds per hour; or a batch HMIWI whose maximum charge rate is more than 1600 pounds per day but less than or equal to 4000 pounds per day.

* The owner/operator of the source is required to notify EPA of an exemption claimed and keep certain records only.

** Co-fired combustor. The owner/operator of the source is required to notify EPA of an exemption claimed and keep certain records only.

**Appendix D-3: Inventory of Small HMIWI in Pennsylvania
(excluding Allegheny County)**

S.No.	Permit No.	Facility Name	City/County	Capacity
1.	07-301-026	Nason Hospital	Roaring Spring/Blair	100 lb/hr
2.	18-301-005A	Lock Haven Hospital	Lock Haven/Clinton	100 lb/hr
3.	19-301-011	Berwick Hospital	Berwick/Columbia	160 lb/hr
4.	23-301-080	Crozer Chester Medical Center	Upland Twp./Delaware	100 lb/hr
5.	28-301-016	Waynesboro Hospital	Waynesboro/Franklin	150lb/hr
6.	33-301-014	Brookville Hospital	Brookville/Jefferson	175 lb/hr
7.	39-301-062	Lehigh Valley Hospital	Allentown/Lehigh	100 lb/hr
8.	41-301-018A	Muncy Valley Hospital	Muncy/Lycoming	160 lb/hr
9.	41-301-020	Divine Providence Hospital	Williamsport/Lycoming	160 lb/hr
10.	42-301-017	Bradford Hospital	Bradford/McKean	175 lb/hr
11.	46-301-194	Rohm & Haas Co.	Lower Gwynedd/Montgomery	200 lb/hr
12.	59-301-017A	Soldiers & Sailors Memorial Hospital	Wellsboro/Tioga	70 lb/hr
13.	60-301-007	Evangelical Community Hospital	Lewisburg/Union	125 lb/hr
14.	64-301-003	Burlein, JP	Wayne County	33 lbs/hr
15.	65-301-061	Torrance State Hospital	Torrance/Westmoreland	100 lb/hr

Small HMIWI means an HMIWI whose maximum design waste burning capacity is less than or equal to 200 pounds per hour; or a continuous or intermittent HMIWI whose maximum charge rate is less than or equal to 200 pounds per hour ; or a batch HMIWI whose maximum charge rate is less than or equal to 1600 pounds per day.

Appendix E-1: Emissions Inventory of Large HMIWI in Pennsylvania (excluding Allegheny County)

Permit No.	Facility Name	Emission Inventory (pounds/year)									
		PM	SO2	HCl	NOx	Cd	Hg	Pb	Dioxins	CO	Reference
	Large HMIWIs										
06-301-093A	Bridgeview, Inc.	2628	937	876	1328*	1.31	3.15	18.2	0.00016TE	14.63	Stack 1996
08-301-013A	Packer, Robert Hospital	7481*	321	2292	3008	8.38*	75.6*	777*	0.091*T	1022	Stack 1991/92
14-301-031	Pennsylvania State University	759	23.36	<4.67	5291*	0.213	.045	6.36	.0000004T	59.57	Stack 1996
21-301-046	Holy Spirit Hospital	6680*	584*	40880*	2756*	7.5*	67.5*	690*	0.0008*T	6314*	Em. Factors
22-301-054	Hershey, Milton Medical Center, The	2161	1927	<165	10097*	1.02	0.67	4.63	0.000044	1016*	Stack 1997
25-301-083A	Hamot Medical Center	131.4	18.74	93.7	0.102	1.56	0.50	0.00016	0.02T	31571*	Stack 1997
36-301-073	Lancaster General Hospital	10686*	934*	65408	4408	11.98	108.2	111.2	0.13	10104	Em. Factors
36-301-083	Ephrata Community Hospital**	8817*	771*	53961*	3637*	9.87*	89.1*	91.5	0.11*T	8335*	Em. Factors
46-301-185	Pottstown Memorial Medical Center	6412*	561*	39245*	2646*	7.18*	64.82*	66.58*	0.078*T	6062*	Em. Factors
46-301-191	Merck Pharmaceutical Manufacturing	12568	1099	76920	5186	14.1	127.1	130.5	0.15	11881	Em. Factors
46-301-211	Holy Redeemer Hospital	6412*	561*	39245*	2646	7.18*	64.82*	66.58*	0.078*T	6062*	Em. Factors
46-301-227	Marinari, James, John and Albert	14980*	1331*	93206*	6283*	17.1*	154*	158*	0.19*T	14397*	Em. Factors
46-301-241	Bryn Mawr Hospital, The	5343*	467*	32704*	2204*	5.99*	54.1*	55.6*	0.065*T	5052*	Em. Factors
PA 46-0005B	Merck Pharmaceutical Manufacturing	963	2365	70.1	45289	.05	1.04	1.13	0.00002TE	0	Stack 1997
47-301-009A	Geisinger Medical Center	6681*	584*	40880*	2766*	7.48*	68.5*	69.3*	0.08*T	631*	Em. Factors
67-301-059	York Hospital	7498*	329*	2299*	3028*	8.48*	76.6*	787*	0.097*T	1022*	Em. Factors
8016	Agnes Hospital***	535(a)	1071	119	5053	1.54	4.39	11.11	0.0014*T	509	Em. Factors
8034	Einstein Medical Center, North****	2102(a)	4205	465	19841	6.04	17.2	43.62	0.0056*T	1997	Em. Factors
8053	Episcopal Hospital****	981(a)	1962	217	9259	2.82	8.03	20.36	0.0026*T	932	Em. Factors
8023	Presbyterian Hospital****	1051(a)	2102	233	9921	3.02	8.61	21.8	0.0028*T	999	Em. Factors

* Emission Factors, assuming 2920 operating hours except where stack test conducted

** Emission calculations based upon 4380 operating hours *** Emission calculations based upon 5840 operating hours

**** Emission calculations based upon 8760 operating hours

(a) High efficiency wet scrubber

T = Total Dioxins/furans

TE = Toxic equivalency factors

Appendix E-2: Emissions Inventory of Medium HMIWI in Pennsylvania (excluding Allegheny County)

Permit No.	Facility Name	Emission Inventory (pounds/year)									
		PM	SO ₂	HCl	NO _x	Cd	Hg	Pb	Dioxins	CO	Reference
	Medium HMIWI										
07-301-024	Altoona Hospital	386	33.8	2360	159.4	0.44	3.8	4.01	0.0000469	364	Emission Factors
09-301-073A	Grand View Hospital	177	155	1082	732	1.6	14.55	17.5	0.0002	161	Emission Factors
15-301-078	Southern Chester County Health Svs.	840	6.5	6.2	2536	6.696	0.296	4.028	0.0000006	0	Emission Factors
19-301-012	Bloomsburg Hospital	1064	92	6522	438	1.18	10.76	0.018	0.0013	14700	Emission Factors
21-301-048	Carlisle Hospital	496.4	88.7	26.28		0.2949	1.497	0.026	0.000003	0	Emission Factors
23-301-085D	Taylor Hospital	840	6.5	6.2	2536	6.696	0.296	4.028	0.0000006	0	Emission Factors
23-301-114	Riddle Memorial Hospital	9390	670	46960	3164	11220	8500	33180	0.01555	1210	Emission Factors
32-301-034	Indiana Hospital	4072	142	40720	678	1.84	16.62	17.12	0.0199	1554	Emission Factors
36-301-096	Community Hospital of Lancaster	250	240	110	1132	1.72	0.26	6.48	.00000287	82.4	Emission Factors
37-301-019	Jameson Memorial Hospital	3196	278	19560	1318	3.4	32	33	0.03884	3022	Emission Factors
38-301-022	Department of Veterans Affairs	7390	25480	9190	71400	0.00095	1.836	0.018	0.0013	14700	Em. Factors except Dioxin
39-301-074	Allentown Hospital	4096	356	25040	1688	4.4	41.2	42.4	0.04974	3868	Emission Factors
40-301-065A	Wilkes-Barre General Hospital	840	6.5	6.2	2536	6.696	0.296	4.028	0.0000006	0	Emission Factors
40-301-071	American Red Cross Reg. Blood Ctr.	2034	2714	19000	1280	13920	7900	3.6	0.000004	2936	Emission Factor
40-301-078	Geisinger Wyoming Valley Med. Ctr.	840	6.5	6.2	2536	6.696	0.296	4.028	0.0000006	0	Emission Factors
46-301-266	Rhone-Poulenc Rorer Pharm. Inc.	840	0	0	2536.8	0.696	0.296	4.028	0.00000006	0	Em. Factors except NO _x
46-301-268	North Penn Hospital	64.24	78.3	17.52		0.4088	0.426	4.26	0.0017	0	Emission Factors
49-301-016	Sunbury Community Hospital	2130	186.36	13000	878	2.387	21.54	22.13	0.0259	2015	Emission Factors
58-301-005	Barnes-Kasson County Hospital	952	80	5800	380	1.1	9.6	9.6	0.0011570	890	Emission Factors
65-301-052	West Haven Nursing Home	570	50	34	236	0.64	0.41	6.1	0.006942	534	Emission Factors
65-301-070A	Latrobe Area Hospital	3080	500	20000	2380	1.1	4.1	15.8	0.0000118	119	Emission Factors
8070	Fox Chase Cancer Center*	1121(a)	1121	124	5291	1.61	4.59	11.63	0.00149T	532.6	Emission Factors
8906	Temple University*	8015	701	49056	3307	8.98	81	83.2	0.098	7577	Emission Factors

* Emission calculations based upon 8760 operating hours

(a) Moderate efficiency wet scrubber

T = Total Dioxins/furans

Appendix E-3: Emissions Inventory of Small HMIWI in Pennsylvania (excluding Allegheny County)

Permit No.	Facility Name	Emission Inventory (pounds/year)									
		Small HMIWI	PM	SO2	HCl	NOx	Cd	Hg	Pb	Dioxins	CO
07-301-026	Nason Hospital	285.48	24.96	1747	117.78	0.3198	2.886	2.964	0.000070902	269.8	Em. Factors
18-301-005A	Lock Haven Hospital	303.78	26.56	1859	125.33	0.3403	3.071	3.154	0.00007544	287.18	Em. Factors
19-301-011	Berwick Hospital	457.5	40	2800	188.75	0.5125	4.625	4.75	0.000113	423.5	Em. Factors
23-301-080	Crozer Chester Medical Center	2130.12	186.24	13036	878.82	2.3862	21.534	22.11	0.000529	2013	Em. Factors
28-301-016	Waynesboro Hospital	499.59	43.68	3057	206.11	0.559	5.05	5.187	0.000124	472.29	Em. Factors
33-301-014	Brookville Hospital	468.48	40.96	2867	193.28	0.5248	4.736	4.864	0.000116	442.88	Em. Factors
39-301-062	Lehigh Valley Hospital	190.32	16.64	1164	78.52	0.2132	1.924	1.976	0.0000472	179.92	Em. Factors
41-301-018A	Muncy Valley Hospital	457.2	7.587	4460	301.4	0.8	7.388	7.586	0.0007288	30.34	Em. Factors
41-301-020	Divine Providence Hospital	863.76	75.52	5286	365.36	0.9676	8.73	8.9	0.000214	816	Em. Factors
42-301-017	Bradford Hospital	380.64	33.28	2329	157.04	0.4264	8.73	3.9	0.000094	359	Em. Factors
46-301-194	Rohm & Hass Co.	475.8	41.6	2912	196.3	0.533	3.848	4.94	0.00011	449	Em. Factors
59-301-017A	Soldiers & Sailors Memorial Hospital	1281	112	7840	528.5	1.435	4.81	13.3	0.00031	1211	Em. Factors
60-301-007	Evangelical Community Hospital	351.36	2150	2150	144.96	0.3936	12.95	3.6	0.000087	332	Em. Factors
64-301-003	Burlein, JP	254	1553	1553	105	0.284	1.18	2.63	0.000063	240	Em. Factors
65-301-061	Torrance State Hospital	761.28	4659	4659	314.08	0.8528	3.552	7.9	0.000189	719	Em. Factors