

b. Emission guidelines for hospital/medical/infectious waste incinerators (Subpart Ce). This paragraph contains emission guidelines and compliance times for the control of certain designated pollutants from hospital/medical/infectious waste incinerator(s) (HMIWI) in accordance with Subparts Ce and Ec (Standards of Performance for Hospital/Medical/Infectious Waste Incinerators) of 40 CFR Part 60.

(1) Definitions. For the purpose of paragraph 23.1(5)“*b*,” the definitions have the same meaning given to them in the Act and 40 CFR Part 60, Subparts A, B, and Ec, if not defined in this subparagraph.

“*Hospital/medical/infectious waste incinerator*” or “*HMIWI*” means any device that combusts any amount or combination of hospital or medical/infectious waste.

“*Hospital waste*” means discards generated at a hospital, except unused items returned to the manufacturer. The definition of hospital waste does not include human corpses, remains, and anatomical parts that are intended for interment or cremation.

“*Large HMIWI*” means:

1. An HMIWI whose maximum design waste burning capacity is more than 500 pounds per hour; or
2. A continuous or intermittent HMIWI whose maximum charge rate is more than 500 pounds per hour; or
3. A batch HMIWI whose maximum charge rate is more than 4,000 pounds per day.

“Medical/infectious waste” means any waste generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals that is listed in numbered paragraphs “1” through “7” of this definition. The definition of medical/infectious waste does not include hazardous waste identified or listed under the regulations in 40 CFR Part 261; household waste, as defined in 40 CFR § 261.4(b)(1); ash from incineration of medical/infectious waste, once the incineration process has been completed; human corpses, remains, and anatomical parts that are intended for interment or cremation; and domestic sewage materials identified in 40 CFR § 261.4(a)(1).

1. Cultures and stocks of infectious agents and associated biologicals, including: cultures from medical and pathological laboratories; cultures and stocks of infectious agents from research and industrial laboratories; wastes from the production of biologicals; discarded live and attenuated vaccines; and culture dishes and devices used to transfer, inoculate, and mix cultures.

2. Human pathological waste, including tissues, organs, and body parts and body fluids that are removed during surgery or autopsy or other medical procedures, and specimens of body fluids and their containers.

3. Human blood and blood products including: liquid waste human blood, products of blood, items saturated or dripping with human blood; or items that were saturated or dripping with human blood that are now caked with dried human blood, including serum, plasma, and other blood components, and their containers, which were used or intended for use in patient care, testing and laboratory analysis or the development of pharmaceuticals. Intravenous bags are also included in this category.

4. Sharps that have been used in animal or human patient care or treatment or in medical, research, or industrial laboratories, including hypodermic needles, syringes (with or without the attached needle), pasteur pipettes, scalpel blades, blood vials, needles with attached tubing, and culture dishes (regardless of presence of infectious agents). Also included are other types of broken or unbroken glassware that were in contact with infectious agents, such as used slides and cover slips.

5. Animal waste including contaminated animal carcasses, body parts, and bedding of animals that were known to have been exposed to infectious agents during research (including research in veterinary hospitals), production of biologicals or testing of pharmaceuticals.

6. Isolation wastes including biological waste and discarded materials contaminated with blood, excretions, exudates, or secretions from humans who are isolated to protect others from certain highly communicable diseases, or from isolated animals known to be infected with highly communicable diseases.

7. Unused sharps including the following unused, discarded sharps: hypodermic needles, suture needles, syringes, and scalpel blades.

“Medium HMIWI” means:

1. 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; or

2. 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

3. A batch HMIWI whose maximum charge rate is more than 1,600 pounds per day but less than or equal to 4,000 pounds per day.

“Remote HMIWI” means a small HMIWI meeting the following conditions:

1. Located 50 miles from the boundary of the nearest standard metropolitan statistical area (SMSA). The SMSA boundary is established by the political borders of the counties, provided in the definition of an SMSA, which are listed in parentheses.

2. Burns less than 2,000 lb/week of hospital waste and medical/infectious waste.

“*Small HMIWI*” means:

1. An HMIWI whose maximum design waste burning capacity is less than or equal to 200 pounds per hour; or
2. A continuous or intermittent HMIWI whose maximum charge rate is less than or equal to 200 pounds per hour; or

3. A batch HMIWI whose maximum charge rate is less than or equal to 1,600 pounds per day.

“*Standard metropolitan statistical area*” or “*SMSA*” means any areas listed in OMB Bulletin No. 93-17 entitled “Revised Statistical Definitions for Metropolitan Areas” dated June 30, 1993. The following SMSAs are in Iowa or within 50 miles of Iowa border: Cedar Rapids (Linn County, IA), Davenport-Moline-Rock Island (Henry County, IL; Rock Island County, IL; Scott County, IA), Des Moines (Dallas County, Polk County, Warren County), Dubuque (Dubuque County), Iowa City (Johnson County), La Crosse (Houston County, MN; La Crosse County, WI), Omaha-Council Bluffs (Cass County, NE; Douglas County, NE; Pottawattamie County, IA; Sarpy County, NE; Washington County, NE), Rochester (Olmsted County, MN), St. Joseph (Andrew County, MO; Buchanan County, MO), Sioux City (Dakota County, NE; Woodbury County, IA), Sioux Falls (Lincoln County, SD; Minnehaha County, SD), and Waterloo-Cedar Falls (Black Hawk County).

(2) Designated facilities.

1. Except as provided in numbered paragraphs “2” through “8” of this subparagraph, the designated facility to which the guidelines apply is each individual HMIWI for which construction was commenced on or before June 20, 1996.

2. A combustor is not subject to this paragraph during periods when only pathological waste, low-level radioactive waste, or chemotherapeutic waste, or any combination thereof (defined in 40 CFR § 60.51c) is burned, provided the owner or operator of the combustor does the following: notifies the director of an exemption claim and keeps records on a calendar-quarter basis of the periods of time when only pathological waste, low-level radioactive waste, or chemotherapeutic waste, or any combination thereof, is burned.

3. Any co-fired combustor (defined in 40 CFR § 60.51c) is not subject to this paragraph if the owner or operator of the co-fired combustor notifies the director of an exemption claim; provides an estimate of the relative weight of hospital waste, medical/infectious waste, other fuels, and other wastes to be combusted; and keeps records on a calendar-quarter basis of the weight of hospital waste and medical/infectious waste combusted and the weight of all other fuels and wastes combusted at the co-fired combustor.

4. Any combustor required to have a permit under Section 3005 of the Solid Waste Disposal Act is not subject to paragraph 23.1(5)“b.”

5. Any combustor which meets the applicability requirements under Subpart Cb, Ea, or Eb of 40 CFR Part 60 is not subject to paragraph 23.1(5)“b.”

6. Any pyrolysis unit (defined in 40 CFR § 60.51c) is not subject to paragraph 23.1(5)“b.”

7. Cement kilns firing hospital, medical or infectious waste, or any combination thereof, are not subject to paragraph 23.1(5)“b.”

8. Physical or operational changes made to an existing HMIWI unit solely for the purpose of complying with paragraph 23.1(5)“b” are not considered a modification and do not result in an existing HMIWI becoming subject to the provisions of 40 CFR Part 60, Subpart Ec.

9. The Title V operating permit requirements, as stated in 567—subrule 22.101(1), are applicable to designated facilities subject to paragraph 23.1(5)“b.” They must apply for an operating permit as specified by 567—subrule 22.105(1) no later than September 15, 2000.

(3) Emission limits.

1. An HMIWI must not exceed the emission limits for each pollutant listed in Table 1, except as provided for in numbered paragraph "2" of subparagraph 23.1(5)"b"(3).

2. A remote HMIWI must not exceed the emission limits for each pollutant listed in Table 2. The 2,000 lb/week limitation does not apply during performance tests.

3. On or after the date on which the initial performance test is completed or is required to be completed under 40 CFR Section 60.8, whichever comes first, no owner or operator of an affected facility shall cause any gases to be discharged into the atmosphere from the stack of the affected facility that exhibit greater than 10 percent opacity (6-minute block average).

Table 1. Emission Limits for Small, Medium, and Large HMIWI

| Pollutant/Units (7 percent oxygen, dry basis) | Emission Limits for HMIWI Size | | |
|---|--------------------------------|----------------|----------------|
| | Small | Medium | Large |
| Particulate matter | | | |
| Milligrams per dry standard cubic meter (grains per dry standard cubic foot) | 115 (0.05) | 69 (0.03) | 34 (0.015) |
| Carbon monoxide | | | |
| Parts per million by volume | 40 | 40 | 40 |
| Dioxins/furans | | | |
| Nanograms per dry standard cubic meter total dioxins/furans (grains per billion dry standard cubic feet), or | 125 (55) | 125 (55) | 125 (55) |
| Nanograms per dry standard cubic meter TEQ (grains per billion dry standard cubic feet) | 2.3 (1.0) | 2.3 (1.0) | 2.3 (1.0) |
| Hydrogen chloride | | | |
| Parts per million by volume, or | 100 | 100 | 100 |
| Percent reduction | 93 | 93 | 93 |
| Sulfur dioxide | | | |
| Parts per million by volume | 55 | 55 | 55 |
| Nitrogen oxides | | | |
| Parts per million by volume | 250 | 250 | 250 |
| Lead | | | |
| Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet), or | 1.2 (0.52) | 1.2 (0.52) | 1.2 (0.52) |
| Percent reduction | 70 | 70 | 70 |
| Cadmium | | | |
| Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet), or | 0.16 (0.07) | 0.16 (0.07) | 0.16 (0.07) |
| Percent reduction | 65 | 65 | 65 |
| Mercury | | | |
| Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet), or | 0.55 (0.24) | 0.55 (0.24) | 0.55 (0.24) |
| Percent reduction | 85 | 85 | 85 |

Table 2. Emission Limits for Remote HMIWI

| Pollutant | Units (7 percent oxygen, dry basis) | Emission Limit |
|--------------------|---|----------------|
| Particulate matter | Milligrams per dry standard cubic meter (grains per dry standard cubic foot) | 197 (0.086) |
| Carbon monoxide | Parts per million by volume | 40 |
| Dioxins/furans | Nanograms per dry standard cubic meter total dioxins/furans (grains per billion dry standard cubic feet), or | 800 (350) |
| | Nanograms per dry standard cubic meter TEQ (grains per billion dry standard cubic feet) | 15 (6.6) |
| Hydrogen chloride | Parts per million by volume | 3100 |
| Sulfur dioxide | Parts per million by volume | 55 |
| Nitrogen oxides | Parts per million by volume | 250 |
| Lead | Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet) | 10 (4.4) |
| Cadmium | Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet) | 4 (1.7) |
| Mercury | Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet) | 7.5 (3.3) |

(4) Operator training and qualification requirements. Designated facilities shall meet the requirements for operator training and qualification listed in 40 CFR § 60.53c by August 16, 2000 (which is one year from EPA's approval of the state's 111(d) plan for HMIWI).

(5) Waste management requirements. Designated facilities shall meet the requirements for a waste management plan listed in 40 CFR § 60.55c by June 16, 2002 (which is 34 months from EPA's approval of the state's 111(d) plan for HMIWI).

(6) Inspection requirements. Each remote HMIWI subject to the emission limits under numbered paragraph "2" of subparagraph 23.1(5) "b"(3) must conduct an initial equipment inspection by August 16, 2000 (which is one year from EPA's approval of the state's 111(d) plan for HMIWI), and perform equipment inspections annually, no more than 12 months after the previous inspection. The facility must complete all necessary repairs within ten operating days following an inspection. If the repairs cannot be accomplished within this period, then the owner or operator must obtain written approval from the department requesting an extension. All inspections shall include the following:

1. Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation, and clean pilot flame sensor as necessary;
2. Ensure proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;
3. Inspect hinges and door latches, and lubricate as necessary;
4. Inspect dampers, fans, and blowers for proper operation;
5. Inspect HMIWI door and door gaskets for proper sealing;
6. Inspect motors for proper operation;
7. Inspect primary chamber refractory lining, and clean and repair or replace lining as necessary;
8. Inspect incinerator shell for corrosion and hot spots;
9. Inspect secondary/tertiary chamber and stack, and clean as necessary;
10. Inspect mechanical loader, including limit switches, for proper operation if applicable;
11. Visually inspect waste bed (grates), and repair or seal as appropriate;

12. For the burn cycle that follows the inspection, document that the incinerator is operating properly, and make any necessary adjustments;

13. Inspect air pollution control device(s) for proper operation if applicable;

14. Inspect waste heat boiler systems to ensure proper operation if applicable;

15. Inspect bypass stack components;

16. Ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment; and

17. Generally observe whether the equipment is maintained in good operating condition.

(7) Compliance, performance testing, and monitoring requirements. Except as provided in subparagraphs 23.1(5)“b”(8) and (9), designated facilities shall meet the requirements for compliance and performance testing listed in 40 CFR § 60.56c (excluding the fugitive emissions testing requirements under 40 CFR § 60.56c(b)(12) and (c)(3)) and the requirements for monitoring listed in 40 CFR § 60.57c.

(8) Compliance and performance testing for remote HMIWI. Remote HMIWI shall meet the following compliance and performance testing requirements:

1. Conduct the performance testing requirements in 40 CFR § 60.56c(a), (b)(1) through (b)(9), (b)(11) (Hg only), and (c)(1). The 2,000 lb/week limitation under numbered paragraph “2” of subparagraph 23.1(5)“b”(3) does not apply during performance tests.

2. Establish maximum charge rate and minimum secondary chamber temperature as site-specific operating parameters during the initial performance test to determine compliance with applicable emission limits.

3. Following the date on which the initial performance test is completed or is required to be completed under 40 CFR § 60.8, whichever date comes first, remote HMIWI must not operate above the maximum charge rate or below the minimum secondary chamber temperature measured as three-hour rolling averages (calculated each hour as the average of the previous three operating hours) at all times except during periods of startup, shutdown and malfunction. Operating parameter limits do not apply during performance tests. Operation above the maximum charge rate or below the minimum secondary chamber temperature shall constitute a violation of the established operating parameter(s).

4. Except as provided in numbered paragraph “5” of subparagraph 23.1(5)“b”(8), operation of the remote HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the PM, CO, and dioxin/furan emission limits.

5. The owner or operator of the remote HMIWI may conduct a repeat performance test within 30 days of violation of applicable operating parameter(s) to demonstrate that the designated facility is not in violation of the applicable emission limit(s). Repeat performance tests conducted pursuant to this paragraph must be conducted using the identical operating parameters that indicated a violation under numbered paragraph “4” of subparagraph 23.1(5)“b”(8).

(9) Monitoring requirements for remote HMIWI. Remote HMIWI must meet the following monitoring requirements:

1. Install, calibrate (to manufacturers’ specifications), maintain, and operate a device for measuring and recording the temperature of the secondary chamber on a continuous basis, the output of which shall be recorded, at a minimum, once every minute throughout operation.

2. Install, calibrate (to manufacturers’ specifications), maintain, and operate a device which automatically measures and records the date, time, and weight of each charge fed into the HMIWI.

3. The owner or operator of a designated facility shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that the designated facility is combusting hospital, medical or infectious waste, or a combination thereof.

(10) Reporting and record-keeping requirements. Designated facilities shall meet the reporting and record-keeping requirements listed in 40 CFR § 60.58c(b), (c), (d), (e), and (f), excluding 40 CFR § 60.58c(b)(2)(ii) (fugitive emissions) and (b)(7) (siting), except for remote HMIWI.

(11) Reporting and record-keeping requirements for remote HMIWI. Remote HMIWI must meet the following reporting and record-keeping requirements:

1. Maintain records of the annual equipment inspections, any required maintenance, and any repairs not completed within ten days of an inspection; and

2. Submit an annual report containing information recorded under numbered paragraph "1" of subparagraph 23.1(5) "b"(11) no later than 60 days following the year in which data were collected. Subsequent reports shall be sent no later than 12 calendar months following the previous report (once the unit is subject to permitting requirements under Title V of the Act, the owner or operator must submit these reports semiannually). The report shall be signed by the facility's manager.

(12) Compliance times for designated facilities planning to retrofit. Designated facilities planning to retrofit existing HMIWI shall comply with the emission limits specified in subparagraph 23.1(5) "b"(3) by August 16, 2002 (which is three years from EPA's approval of the state's 111(d) plan for HMIWI). To ensure compliance, these facilities must also comply with the following increments of progress:

1. Submit construction permit application to the department, as required by rule 567—22.1(455B), to outline the addition of control equipment and the modification of existing processes by August 16, 2000 (which is one year from EPA's approval of the state's 111(d) plan for HMIWI);

2. Award contracts for control systems or process modifications, or orders for purchase of components by February 16, 2001 (which is 18 months from EPA's approval of the state's 111(d) plan for HMIWI);

3. Initiate on-site construction or installation of the air pollution control device(s) or process changes by August 16, 2001 (which is two years from EPA's approval of the state's 111(d) plan for HMIWI);

4. Complete on-site construction or installation of air pollution control device(s) or process changes by May 16, 2002 (which is 33 months from EPA's approval of the state's 111(d) plan for HMIWI); and

5. Complete initial compliance test(s) on the air pollution control equipment by June 16, 2002 (which is 34 months from EPA's approval of the state's 111(d) plan for HMIWI).

(13) Compliance times for designated facilities planning to shut down. Designated facilities planning to shut down an existing HMIWI shall shut down by August 16, 2000 (which is one year from EPA's approval of the state's 111(d) plan for HMIWI). Designated facilities may request an extension from the department to operate the HMIWI for up to two additional years. The request for extension must be submitted to the department by May 16, 2000 (which is nine months from EPA's approval of the state's 111(d) plan for HMIWI) and include the following:

1. Documentation to support the need for the requested extension;

2. An evaluation of the option to transport the waste off site to a commercial medical waste treatment and disposal facility on a temporary or permanent basis; and

3. A plan that documents measurable and enforceable incremental steps of progress to be taken toward compliance with paragraph 23.1(5) "b," including final compliance date which can be no later than September 16, 2002.

c. Emission guidelines and compliance schedules for commercial and industrial solid waste incineration units that commenced construction on or before November 30, 1999. Emission guidelines and compliance schedules for the control of designated pollutants from affected commercial and industrial solid waste incinerators that commenced construction on or before November 30, 1999, shall be in accordance with federal plan requirements established in Subpart III of 40 CFR Part 62.

23.1(6) Calculation of emission limitations based upon stack height. This rule sets limits for the maximum stack height credit to be used in ambient air quality modeling for the purpose of setting an emission limitation and calculating the air quality impact of a source. The rule does not limit the actual physical stack height for any source.

For the purpose of this subrule, definitions of “stack,” “a stack in existence,” “dispersion technique,” “nearby” and “excessive concentration” as set forth in 40 CFR §§ 51.100(ff) through (hh), (jj) and (kk) as amended through June 14, 1996, are adopted by reference.

a. “Good engineering practice (GEP) stack height” means the greater of:

- (1) Sixty-five meters, measured from the ground level elevation at the base of the stack; or
- (2) For stacks in existence on January 12, 1979, and for which the owner and operator had obtained all applicable permits or approvals required under 567—Chapter 22 and 40 CFR § 52.21 as amended through March 12, 1996,

$$H_g = 2.5H$$

provided the owner or operator produces evidence that this equation was actually relied on in establishing an emission limitation;

For all other stacks,

$$H_g = H + 1.5L$$

where:

H_g = good engineering practice stack height, measured from the ground level elevation at the base of the stack,

H = height of nearby structure(s) measured from the ground level elevation at the base of the stack,

L = lesser dimension, height or projected width, of nearby structure(s), provided that the department may require the use of a field study or fluid model to verify GEP stack height for the source; or

- (3) The height demonstrated by a fluid model or a field study approved by the department, which ensures that the emissions from a stack do not result in excessive concentrations of any air pollutant as a result of atmospheric downwash, wakes, or eddy effects created by the source itself, nearby structures or nearby terrain features. Public notification of the availability of such study and opportunity for public hearing are required prior to approval by the department.

b. The degree of emission limitation required for control of any air contaminant under this chapter shall not be affected in any manner by:

- (1) The consideration of that portion of a stack which exceeds GEP stack height; or
- (2) Varying the rate of emission of a pollutant according to atmospheric conditions or ambient concentrations of that pollutant; or
- (3) Increasing final exhaust gas plume rise by manipulating source process parameters, exhaust gas parameters, stack parameters, or combined exhaust gases from several existing stacks into one stack; or other selective handling of exhaust gas streams so as to increase gas plume rise.

This rule is intended to implement Iowa Code section 455B.133.

567—23.2(455B) Open burning.

23.2(1) Prohibition. No person shall allow, cause or permit open burning of combustible materials, except as provided in 23.2(2) and 23.2(3).

23.2(2) Variances from rules. Any person wishing to conduct open burning of materials not exempted in 23.2(3) may make application for a variance as specified in 567—subrule 21.2(1). In addition to requiring the information specified under 567—subrule 21.2(1), the director may require any person applying for a variance from the open burning rules to submit adequate documentation to allow the director to assess whether granting the variance will hinder attainment or maintenance of a National Ambient Air Quality Standard (NAAQS).

23.2(3) Exemptions. The open burning exemptions specified in this subrule shall not be construed as exemptions from any other applicable environmental regulations. In particular, the exemptions contained in this subrule do not absolve any person from compliance with the rules for solid waste disposal, including ash disposal, and solid waste permitting contained in 567—Chapters 100 through 130 or the rules for storm water runoff and storm water permitting contained in 567—Chapters 60 and 64. The following shall be permitted unless prohibited by local ordinances or regulations.

a. Disaster rubbish. The open burning of rubbish, including landscape waste, for the duration of the community disaster period in cases where an officially declared emergency condition exists. Burning of any structures or demolished structures shall be conducted in accordance with 40 CFR Section 61.145 as amended through January 16, 1991, which is the “Standard for Demolition and Renovation” of the asbestos National Emission Standard for Hazardous Air Pollutants.

b. Trees and tree trimmings. The open burning of trees and tree trimmings not originated on the premises provided that the burning site is operated by a local governmental entity, the burning site is fenced and access is controlled, burning is conducted on a regularly scheduled basis and is supervised at all times, burning is conducted only when weather conditions are favorable with respect to surrounding property, and the burning site is limited to areas at least one-quarter mile from any inhabited building unless a written waiver in the form of an affidavit is submitted by the owner of the building to the department and to the local governmental entity prior to the first instance of open burning at the site which occurs after November 13, 1996. The written waiver shall become effective only upon recording in the office of the recorder of deeds of the county in which the inhabited building is located. However, when the open burning of trees and tree trimmings causes air pollution as defined in Iowa Code section 455B.131(3), the department may take appropriate action to secure relocation of the burning operation. Rubber tires shall not be used to ignite trees and tree trimmings.

This exemption shall not apply within the area classified as the PM10 (inhalable) particulate Group II area of Mason City. This Group II area is described as follows: the area in Cerro Gordo County, Iowa, in Lincoln Township including Sections 13, 24 and 25; in Lime Creek Township including Sections 18, 19, 20, 21, 27, 28, 29, 30, 31, 32, 33, 34 and 35; in Mason Township the W ½ of Section 1, Sections 2, 3, 4, 5, 8, 9, the N ½ of Section 11, the NW ¼ of Section 12, the N ½ of Section 16, the N ½ of Section 17 and the portions of Sections 10 and 15 north and west of the line from U.S. Highway 18 south on Kentucky Avenue to 9th Street SE; thence west on 9th Street SE to the Minneapolis and St. Louis railroad tracks; thence south on Minneapolis and St. Louis railroad tracks to 19th Street SE; thence west on 19th Street SE to the section line between Sections 15 and 16.

c. Flare stacks. The open burning or flaring of waste gases, providing such open burning or flaring is conducted in compliance with 23.3(2)“d” and 23.3(3)“e.”

d. Landscape waste. The disposal by open burning of landscape waste originating on the premises. However, the burning of landscape waste produced in clearing, grubbing and construction operations shall be limited to areas located at least one-fourth mile from any building inhabited by other than the landowner or tenant conducting the open burning. Rubber tires shall not be used to ignite landscape waste.

e. Recreational fires. Open fires for cooking, heating, recreation and ceremonies, provided they comply with 23.3(2)“d.” Burning rubber tires is prohibited from this activity.

f. Residential waste. Backyard burning of residential waste at dwellings of four-family units or less. The adoption of more restrictive ordinances or regulations of a governing body of the political subdivision, relating to control of backyard burning, shall not be precluded by these rules.

g. Training fires. For purposes of subrule 23.2(3), a “training fire” is a fire set for the purposes of conducting bona fide training of public or industrial employees in firefighting methods. For purposes of this paragraph, “bona fide training” means training that is conducted according to the National Fire Protection Association 1403 Standard of Live Fire Training Evolutions (2002 Edition) or a comparable training fire standard. A training fire may be conducted, provided that all of the following conditions are met:

- (1) A training fire on a building is conducted with the building structurally intact.

(2) The training fire does not include the controlled burn of a demolished building.

(3) If the training fire is to be conducted on a building, written notification is provided to the department on DNR Form 542-8010, Notification of an Iowa Training Fire-Demolition or a Controlled Burn of a Demolished Building, and is postmarked or delivered to the director at least ten working days before such action commences.

(4) Notification shall be made in accordance with 40 CFR Section 61.145, "Standard for Demolition and Renovation" of the asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP), as amended through January 16, 1991.

(5) All asbestos-containing materials shall be removed prior to the training fire.

(6) Asphalt roofing may be burned in the training fire only if notification to the director contains testing results indicating that none of the layers of asphalt roofing contain asbestos. During each calendar year, each fire department may conduct no more than two training fires on buildings where asphalt roofing has not been removed, provided that for each of those training fires the asphalt roofing material present has been tested to ensure that it does not contain asbestos. Each fire department's limit on the burning of asphalt roofing shall include both training fires and the controlled burning of a demolished building, as specified in 23.2(3)"j."

(7) Rubber tires shall not be burned during a training fire.

h. Paper or plastic pesticide containers and seed corn bags. The disposal by open burning of paper or plastic pesticide containers (except those formerly containing organic forms of beryllium, selenium, mercury, lead, cadmium or arsenic) and seed corn bags resulting from farming activities occurring on the premises. Such open burning shall be limited to areas located at least one-fourth mile from any building inhabited by other than the landowner or tenant conducting the open burning, livestock area, wildlife area, or water source. The amount of paper or plastic pesticide containers and seed corn bags that can be disposed of by open burning shall not exceed one day's accumulation or 50 pounds, whichever is less. However, when the burning of paper or plastic pesticide containers or seed corn bags causes a nuisance, the director may take action to secure relocation of the burning operation. Since the concentration levels of pesticide combustion products near the fire may be hazardous, the person conducting the open burning should take precautions to avoid inhalation of the pesticide combustion products.

i. Agricultural structures. The open burning of agricultural structures, provided that the open burning occurs on the premises and, for agricultural structures located within a city or town, at least one-fourth mile from any building inhabited by a person other than the landowner, a tenant, or an employee of the landowner or tenant conducting the open burning unless a written waiver in the form of an affidavit is submitted by the owner of the building to the department prior to the open burning; all chemicals and asphalt roofing are removed; burning is conducted only when weather conditions are favorable with respect to surrounding property; and permission from the local fire chief is secured in advance of the burning. Rubber tires shall not be used to ignite agricultural structures. The asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP), as amended through January 16, 1991, requires the burning of agricultural structures to be conducted in accordance with 40 CFR Section 61.145, "Standard for Demolition and Renovation."

For the purposes of this subrule, "agricultural structures" means barns, machine sheds, storage cribs, animal confinement buildings, and homes located on the premises and used in conjunction with crop production, livestock or poultry raising and feeding operations. "Agricultural structures," for asbestos NESHAP purposes, includes all of the above, with the exception of a single residential structure on the premises having four or fewer dwelling units, which has been used only for residential purposes.