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Title 22@ Social Security

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Division 4.5@ Environmental Health Standards for the Management of Hazardous Waste

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Chapter 20@ The Hazardous Waste Permit Program

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Article 2@ Permit Application

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Section 66270.19@ Specific Part B Information Requirements for Incinerators

66270.19 Specific Part B Information Requirements for Incinerators

Except as section 66264.340 of this division provides otherwise, owners and operators of facilities that incinerate hazardous waste shall fulfill the requirements of subsection (a), (b), or (c) of this section:

(a)

when seeking an exemption under section 66264.340(b) or (c) of this division (ignitable, corrosive, or reactive wastes only): (1) documentation that the waste is listed as a hazardous waste in chapter 11, article 4 of this division, solely because it is ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or (2) documentation that the waste is listed as a hazardous waste in chapter 11, article 4 of this division, solely because it is reactive (Hazard Code R) for characteristics other than those listed in sections 66261.23(a)(4) and (5), and will not be burned when other hazardous wastes are present in the combustion zone; or (3) documentation that the waste is a hazardous waste solely because it possesses the characteristic of ignitability, corrosivity, or both, as determined by the tests for characteristics of hazardous waste under chapter 11, article 3 of this division; or (4) documentation that the waste is a hazardous waste solely because it possesses the reactivity characteristics listed in section 66261.23(a)(1), (2), (3), (6), (7), or (8) of this chapter and that it will not be burned when other hazardous

wastes are present in the combustion zone; or

(1)

documentation that the waste is listed as a hazardous waste in chapter 11, article 4 of this division, solely because it is ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or ignitable (Hazard Code I) or corrosive (Hazard Code C) or both; or

(2)

documentation that the waste is listed as a hazardous waste in chapter 11, article 4 of this division, solely because it is reactive (Hazard Code R) for characteristics other than those listed in sections 66261.23(a)(4) and (5), and will not be burned when other hazardous wastes are present in the combustion zone; or

(3)

documentation that the waste is a hazardous waste solely because it possesses the characteristic of ignitability, corrosivity, or both, as determined by the tests for characteristics of hazardous waste under chapter 11, article 3 of this division; or

(4)

documentation that the waste is a hazardous waste solely because it possesses the reactivity characteristics listed in section 66261.23(a)(1), (2), (3), (6), (7), or (8) of this chapter and that it will not be burned when other hazardous wastes are present in the combustion zone; or

(b)

submit a trial burn plan or the results of a trial burn, including all required determinations, in accordance with section 66270.62; or

(c)

in lieu of a trial burn, the applicant may submit the following information: (1) an analysis of each waste or mixture of wastes to be burned including: (A) heat value of the waste in the form and composition in which it will be burned; (B)

viscosity (if applicable), or description of physical form of the waste; (C) an identification of any hazardous organic constituents listed in chapter 11, Appendix VIII, of this division, which are present in the waste to be burned, except that the applicant need not analyze for constituents listed in chapter 11, Appendix VIII, of this division which would reasonably not be expected to be found in the waste. The constituents excluded from analysis shall be identified and the basis for their exclusion stated. The waste analysis shall rely on analytical techniques specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11), or their equivalent; (D) an approximate quantification of the hazardous constituents identified in the waste, within the precision produced by the analytical methods specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11); (E) a quantification of those hazardous constituents in the waste which may be designated as POHCs based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in section 66264.343 of this division; (2) a detailed engineering description of the incinerator, including: (A) manufacturer's name and model number of incinerator; (B) type of incinerator; (C) linear dimension of incinerator unit including cross sectional area of combustion chamber; (D) description of auxiliary fuel system (type/feed); (E) capacity of prime mover; (F) description of automatic waste feed cutoff system(s); (G) stack gas monitoring and pollution control monitoring system; (H) nozzle and burner design; (I) construction materials; (J) location and description of temperature, pressure, and flow indicating devices and control devices; (3) a description and analysis of the waste to be burned compared with the waste for

which data from operational or trial burns are provided to support the contention that a trial burn is not needed. The data shall include those items listed in subsection (c)(1) of this section. This analysis shall specify the POHCs which the applicant has identified in the waste for which a permit is sought, and any differences from the POHCs in the waste for which burn data are provided; (4) the design and operating conditions of the incinerator unit to be used, compared with that for which comparative burn data are available; (5) a description of the results submitted from any previously conducted trial burn(s) including: (A) sampling and analysis techniques used to calculate performance standards in section 66264.343 of this division; (B) methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement); (C) the certification and results required by section 66270.62(b)(7); (6) the expected incinerator operation information to demonstrate compliance with sections 66264.343 and 66264.345 of this division including: (A) expected carbon monoxide (CO) and oxygen (O₂) concentrations in the stack exhaust gas; (B) waste feed rate; (C) combustion zone temperature; (D) indication of combustion gas velocity; (E) expected stack gas volume, flow rate, and temperature; (F) computed residence time for waste in the combustion zone; (G) expected hydrochloric acid removal efficiency; (H) expected fugitive emissions and their control procedures; (I) proposed waste feed cut-off limits based on the identified significant operating parameters; (7) such supplemental information as the Department finds necessary to achieve the purposes of this section; (8) waste analysis data, including that submitted in subsection (c)(1) of this section, sufficient to allow the Department to specify as permit Principal Organic Hazardous Constituents (permit POHCs) those constituents for which destruction

and removal efficiencies will be required.

(1)

an analysis of each waste or mixture of wastes to be burned including: (A) heat value of the waste in the form and composition in which it will be burned; (B) viscosity (if applicable), or description of physical form of the waste; (C) an identification of any hazardous organic constituents listed in chapter 11, Appendix VIII, of this division, which are present in the waste to be burned, except that the applicant need not analyze for constituents listed in chapter 11, Appendix VIII, of this division which would reasonably not be expected to be found in the waste. The constituents excluded from analysis shall be identified and the basis for their exclusion stated. The waste analysis shall rely on analytical techniques specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11), or their equivalent; (D) an approximate quantification of the hazardous constituents identified in the waste, within the precision produced by the analytical methods specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11); (E) a quantification of those hazardous constituents in the waste which may be designated as POHCs based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in section 66264.343 of this division;

(A)

heat value of the waste in the form and composition in which it will be burned;

(B)

viscosity (if applicable), or description of physical form of the waste;

(C)

an identification of any hazardous organic constituents listed in chapter 11, Appendix VIII, of this division, which are present in the waste to be burned, except that the applicant need not analyze for constituents listed in chapter 11, Appendix VIII, of this division which would reasonably not be expected to be found in the waste. The constituents excluded from analysis shall be identified and the basis for their exclusion stated. The waste analysis shall rely on analytical techniques specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11), or their equivalent;

(D)

an approximate quantification of the hazardous constituents identified in the waste, within the precision produced by the analytical methods specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Third Edition and Updates (incorporated by reference in section 66260.11);

(E)

a quantification of those hazardous constituents in the waste which may be designated as POHCs based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in section 66264.343 of this division;

(2)

a detailed engineering description of the incinerator, including: (A) manufacturer's name and model number of incinerator; (B) type of incinerator; (C) linear dimension of incinerator unit including cross sectional area of combustion chamber; (D) description of auxiliary fuel system (type/feed); (E) capacity of prime mover; (F) description of automatic waste feed cutoff system(s); (G) stack gas monitoring and pollution control monitoring system; (H) nozzle and burner design; (I) construction materials; (J) location and description of temperature, pressure, and flow indicating devices and control devices;

(A)

manufacturer's name and model number of incinerator;

(B)

type of incinerator;

(C)

linear dimension of incinerator unit including cross sectional area of combustion chamber;

(D)

description of auxiliary fuel system (type/feed);

(E)

capacity of prime mover;

(F)

description of automatic waste feed cutoff system(s);

(G)

stack gas monitoring and pollution control monitoring system;

(H)

nozzle and burner design;

(I)

construction materials;

(J)

location and description of temperature, pressure, and flow indicating devices and control devices;

(3)

a description and analysis of the waste to be burned compared with the waste for which data from operational or trial burns are provided to support the contention that a trial burn is not needed. The data shall include those items listed in subsection (c)(1) of this section. This analysis shall specify the POHCs which the applicant has identified in

the waste for which a permit is sought, and any differences from the POHCs in the waste for which burn data are provided;

(4)

the design and operating conditions of the incinerator unit to be used, compared with that for which comparative burn data are available;

(5)

a description of the results submitted from any previously conducted trial burn(s) including: (A) sampling and analysis techniques used to calculate performance standards in section 66264.343 of this division; (B) methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement); (C) the certification and results required by section 66270.62(b)(7);

(A)

sampling and analysis techniques used to calculate performance standards in section 66264.343 of this division;

(B)

methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement);

(C)

the certification and results required by section 66270.62(b)(7);

(6)

the expected incinerator operation information to demonstrate compliance with sections 66264.343 and 66264.345 of this division including: (A) expected carbon monoxide (CO) and oxygen (O₂) concentrations in the stack exhaust gas; (B) waste

feed rate; (C) combustion zone temperature; (D) indication of combustion gas velocity; (E) expected stack gas volume, flow rate, and temperature; (F) computed residence time for waste in the combustion zone; (G) expected hydrochloric acid removal efficiency; (H) expected fugitive emissions and their control procedures; (I) proposed waste feed cut-off limits based on the identified significant operating parameters;

(A)

expected carbon monoxide (CO) and oxygen (O₂) concentrations in the stack exhaust gas;

(B)

waste feed rate;

(C)

combustion zone temperature;

(D)

indication of combustion gas velocity;

(E)

expected stack gas volume, flow rate, and temperature;

(F)

computed residence time for waste in the combustion zone;

(G)

expected hydrochloric acid removal efficiency;

(H)

expected fugitive emissions and their control procedures;

(I)

proposed waste feed cut-off limits based on the identified significant operating parameters;

(7)

such supplemental information as the Department finds necessary to achieve the purposes of this section;

(8)

waste analysis data, including that submitted in subsection (c)(1) of this section, sufficient to allow the Department to specify as permit Principal Organic Hazardous Constituents (permit POHCs) those constituents for which destruction and removal efficiencies will be required.

(d)

The Department shall approve a permit application without a trial burn if it finds that: (1) the wastes are sufficiently similar; and (2) the incinerator units are sufficiently similar, and the data from other trial burns are adequate to specify (under section 66264.345) operating conditions that will ensure that the performance standards in section 66264.343 will be met by the incinerator.

(1)

the wastes are sufficiently similar; and

(2)

the incinerator units are sufficiently similar, and the data from other trial burns are adequate to specify (under section 66264.345) operating conditions that will ensure that the performance standards in section 66264.343 will be met by the incinerator.