

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85

Burning of Hazardous Waste in
Boilers and Industrial Furnaces56 FR 7134-7240

February 21, 1991

(RCRA Cluster I, HSWA and non-HSWA provisions)

1) There are numerous typographical and technical errors in the final rule addressed by this checklist; where they are obvious, we have noted them. On July 17, 1991 (56 FR 32688; Revision Checklist 94) extensive corrections were made to the final rule addressed by this checklist because of the many typographical and other errors found in the February 21, 1991 final rule. The Agency also published a second technical correction on August 27, 1991 (56 FR 42504; Revision Checklist 96), which reversed the revisions to 265.112(d)(2), 265.113(a) and 265.113(b) made by the final rule addressed by this present checklist, which contains these revisions as published in that February 21, 1991 (56 FR 7134) final rule. States are cautioned not to make the corrections to 265.112(d)(2), 265.113(a) and 265.113(b) as requested by this checklist. Otherwise those corrections will have to be undone when Revision Checklist 96 is applied for. Finally, Revision Checklists 111 (57 FR 38558; August 25, 1992) and 114 (57 FR 44999; September 30, 1992) made several technical amendments to the BIFs rule. Because of the extent of the technical corrections made to the rule addressed by Revision Checklist 85, States are strongly encouraged to use the Consolidated Boilers and Industrial Furnaces Checklist, which consolidates this present Boilers and Industrial Furnaces rule with subsequent revisions made to it. A Consolidated Checklist which consolidates all final BIFs rules through December 31, 1991 (i.e., Revision Checklists 85, 94, 96 and 98 (56 FR 33874; September 5, 1991) is currently available on the SRPB Electronic Bulletin Board System. That consolidated checklist will be part of SPA 12. The consolidated checklist will be updated as part of subsequent SPAs as additional final rules addressing the BIFs rule are promulgated. For example, a Consolidated Checklist which consolidates changes to the Federal code through June 30, 1993, including Revision Checklists 85, 94, 96, 98, 105 (57 FR 27880; June 22, 1992), 111 (57 FR 38558; August 25, 1992) and 114 (57 FR 44999; September 30, 1992) will be developed as part of SPA 14.

2) States applying for Revision Checklist 85 are urged to adopt required Revision Checklists 94, 96, 111 and 114 changes at the same time the requirements addressed by Revision Checklist 85 are adopted. States that have already adopted the provisions addressed by Revision Checklist 85 are strongly encouraged to apply for the Revision Checklists 94, 96, 111, and 114 provisions as soon as possible.

3) Note that on September 5, 1991 (56 FR 43874; Revision Checklist 98), an administrative stay was published affecting this final rule, by delaying when the permit standards become effective for coke ovens burning certain hazardous wastes from a coke by-products recovery process. The changes addressed by Revision Checklist 98 are optional. However, the final rule addressed by Revision Checklist 105 (June 22, 1992; 57 FR 27880) removed the September 5, 1991 administrative stay. Thus States should either not adopt the administrative stay or, if they choose to adopt the stay, state in their regulations that this stay ends on June 22, 1992.

4) The regulations addressed by this checklist typically do not make a distinction between the various types of burning devices. However, the provisions in the regulations as they apply to sludge dryers, carbon regeneration units, infrared incinerators, and plasma arc incinerators are non-HSWA requirements, while the regulations as they apply to all other types of burning devices are HSWA provisions. EPA will implement the HSWA requirements in authorized States until the States modify their programs and such modifications are approved by EPA. The non-HSWA requirements are applicable only in those States that do not have authorization. In authorized States, the non-HSWA requirements will not be applicable until States revise their programs to adopt equivalent requirements under State law.

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

PART 260 - HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL

SUBPART B - DEFINITIONS

change "Parts 260 through 265 and 268" to "Parts 260 through 266 and 268"	260.10(intro)				"carbon regeneration unit"	260.10
revise "incinerator"	260.10(1)&(2)					
replace "controlled flame devices" with "thermal treatment" in introductory text of the definition for "industrial furnace"	260.10					
redesignate paragraph (12) in the definition for "industrial furnace" as paragraph (13); add new paragraph (12) that adds halogen acid furnaces to the list of devices considered industrial furnaces	260.10(12)&(13)					
"infrared incinerator"	260.10					
"plasma arc incinerator"	260.10					
"sludge dryer"	260.10					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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REFERENCES

add to the first set of listings, in alphabetical order:

"U.S. EPA, Screening Procedures for Estimating the Air Quality Impact of Stationary Sources..."

260.11(a)

PART 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SUBPART A - GENERAL

DEFINITION OF SOLID WASTE

redesignate (d)(2) as (d)(3); add new paragraph (d)(2) regarding secondary materials fed to a halogen acid furnace that exhibit a characteristic or are a listed waste

261.2(d)(2)

redesignate old 261.2(d)(2) as 261.2(d)(3)

261.2(d)(3)

EXCLUSIONS

† add exclusion for coke and coal tar when used as a fuel that contains or is produced from K087; process of producing coke and coal tar in a coke oven also excluded from regulation

261.4(a)(10)

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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insert "except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste" at end of paragraph	261.4(b)(4)				
revise first sentence to include phosphate rock and overburden from the mining of uranium ore in the existing parenthetical phrase; insert "except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste" at end of first sentence	261.4(b)(7)				
add "except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste" to end of paragraph	261.4(b)(8)				
REQUIREMENTS FOR RECYCLABLE MATERIALS					
remove existing paragraph 261.6(a)(3)(vii) and redesignate 261.6(a)(3)(viii) as 261.6(a)(3)(vii)	261.6(a)(3)(vii)				
redesignate 261.6(a)(3)(ix) as 261.6(a)(3)(viii)	261.6(a)(3)(viii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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PART 264 - STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

SUBPART G - CLOSURE AND POST-CLOSURE

CLOSURE OF PLAN; AMENDMENT OF PLAN

add sentence regarding written notification of Regional Administrator at least 45 days prior to partial or final closure of a boiler or industrial furnace	264.112(d)(1)
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SUBPART O - INCINERATORS

APPLICABILITY

regulations apply to owners and operators of hazardous waste incinerators (as defined in 260.10) except as 264.1 provides otherwise	264.340(a)
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US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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PART 265 - INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES

SUBPART G - CLOSURE AND POST-CLOSURE

CLOSURE PLAN; AMENDMENT OF PLAN

insert "or by six months after the effective date of the rule that first subjects a facility to provisions of this section" after "By May 19, 1981" 265.112(a)

add sentence regarding submittal of closure plan at least 45 days prior to beginning partial or final closure of a boiler or industrial furnace; add sentence regarding written notification at least 45 days prior to beginning partial or final closure of a boiler or industrial furnace when the owner or operator has an approved closure plan 265.112(d)(1)

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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1 restructure paragraph by deleting the subparagraph designations (i) and (ii) and the text under (ii); add "Exception for boilers and industrial furnaces that operate under interim status, as specified by 266.103(c)(7)(i)(B) or (C)" at beginning of paragraph; add sentence at end of paragraph requiring the date when interim status boilers and industrial furnaces expect to begin closure to be within 30 days of failure to meet 266.103(c)(7)(i)(B) or (C) deadline 265.112(d)(2)

CLOSURE: TIME ALLOWED FOR CLOSURE

1 remove text regarding the final volume of nonhazardous waste; add text regarding the 90-day requirement for a boiler or industrial furnace that does not submit a complete certification of compliance by the 266.103(c)(7)(i)(B) or (C) deadline 265.113(a)

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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1 remove text regarding the final volume of nonhazardous waste; add text regarding the 180-day requirement for a boiler or industrial furnace that does not submit a complete certification of compliance by the 266.103(c)(7)(i)(B) or (C) deadline	265.113(b)
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SUBPART O - INCINERATORS

APPLICABILITY

regulations apply to owners and operators of hazardous waste incinerators (as defined in 260.10) except as 265.1 provides otherwise	265.340(a)
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PART 266 - STANDARDS FOR THE MANAGEMENT OF SPECIFIC HAZARDOUS WASTES AND SPECIFIC TYPES OF HAZARDOUS WASTE MANAGEMENT FACILITIES

SUBPART D - HAZARDOUS WASTE BURNED FOR ENERGY RECOVERY

remove and reserve Subpart D	266.30-266.35
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US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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SUBPART H - HAZARDOUS WASTE BURNED IN BOILERS AND INDUSTRIAL FURNACES

APPLICABILITY

regulations apply to hazardous waste burned or processed in a boiler or industrial furnace, irrespective of purpose, except as 266.100(b),(c) and (d) provide; definition of "burn"; 266.104-266.107 emissions standards apply to interim status or permitted facilities as specified in §§266.102 and 266.103	266.100(a)			
hazardous wastes and facilities not subject to regulation under Subpart H:	266.100(b)			
used oil burned for energy recovery that is hazardous solely because it exhibits a characteristic; regulated under 266, Subpart E	266.100(b)(1)			
gas recovered from landfills and burned for energy recovery	266.100(b)(2)			
exempt hazardous wastes under 261.4 and 261.6(a)(3)(v)-(viii); CESQG hazardous wastes under 261.5	266.100(b)(3)			
coke ovens burning only K087	266.100(b)(4)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
owners and operators of smelting, melting and refining furnaces processing hazardous waste solely for metal recovery conditionally exempt, except for 266.101 and 266.112	266.100(c)				
requirements for exemption from 266.102 through 266.111	266.100(c)(1)				
one-time written notice indicating:	266.100(c)(1)(i)				
owner or operator claims 266.100(c) exemption	266.100(c)(1)(i)(A)				
metal recovery as per 266.100(c)(2) provisions	266.100(c)(1)(i)(B)				
recoverable levels of metals	266.100(c)(1)(i)(C)				
compliance with 266.100 sampling and analysis and record-keeping requirements	266.100(c)(1)(i)(D)				
sample and analyze hazardous waste and other feedstocks as necessary using specified procedures	266.100(c)(1)(ii)				
maintain specified records at facility for at least three years	266.100(c)(1)(iii)				
criteria under which a hazardous waste is not processed solely for metal recovery	266.100(c)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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total concentration of 261, Appendix VIII organic compounds exceeds 500 ppm by weight and are considered burned for destruction	266.100(c)(2)(i)				
heating value of 5,000 Btu/lb or more and considered burned as fuel	266.100(c)(2)(ii)				
266.111 direct transfer operation standards apply only to facilities subject to 266.102 or 266.103 standards	266.100(d)				
266.112 residue management standards apply to any boiler or industrial furnace burning hazardous waste	266.100(e)				
MANAGEMENT PRIOR TO BURNING					
generators of hazardous waste that is burned in a boiler or industrial furnace subject to Part 262	266.101(a)				
transporters of hazardous waste that is burned in a boiler or industrial furnace subject to Part 263	266.101(b)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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owner and operators of facilities that store hazardous waste burned in a boiler or industrial furnace subject to 264 and 265, Subparts A through L, and 270, except as provided by 266.101(c)(2); standards applicable to storage by burners and intermediary facilities	266.101(c)(1)				
generators of hazardous waste who burn on-site in boilers or industrial furnaces exempt from regulation under 266.108 small quantity burner provisions are exempt from regulation under 264 and 265, subparts A through L, and 270 with respect to storage of mixtures of hazardous waste and the primary fuel in tanks that feed mixture directly to burner; hazardous waste storage prior to mixing subject to 266.101(c)(1) regulation	266.101(c)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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PERMIT STANDARDS FOR BURNERS

owners and operators not operating under interim status and not exempt under 266.108 small quantity burner exemption, are subject to 266.102, 270.22 and 270.66 requirements

266.102(a)(1)

266.102(a)(2)

266.102(a)(2)(i)

266.102(a)(2)(ii)

266.102(a)(2)(iii)

266.102(a)(2)(iv)

266.102(a)(2)(v)

266.102(a)(2)(vi)

266.102(a)(2)(vii)

266.102(a)(2)(viii)

applicable 264 provisions:

266.102(a)(2)(ix)

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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analysis to quantify concentration of any 261, Appendix VIII constituent at levels detectable by specified analytical procedures; identification; explanation of constituents excluded from analysis; analysis provides Subpart H, 270.22 and 270.66 information to prescribe permit conditions; analysis included in Part B permit application or in trial burn plan for interim status facilities; owners/operators of units not operating under interim status include 270.22 or 270.66(c) information in Part B application, to extent possible	266.102(b)(1)				
sampling and analysis throughout normal operation to ensure permit-specified physical and chemical composition limits are met	266.102(b)(2)				
compliance with 266.104 through 266.107 emissions standards	266.102(c)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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burn only hazardous wastes specified in permit under 266.102(e) operating conditions; exception for approved trial burns under 270.66 conditions	266.102(d)(1)				
new permit or permit modification necessary to burn hazardous waste not specified in permit; trial burn results or Part B alternative data form basis for new waste operating requirements	266.102(d)(2)				
266.103 interim status boilers and industrial furnaces permitted under 270.66(g) procedures	266.102(d)(3)				
permit for new boiler or industrial furnace must establish appropriate conditions for each applicable 266.102 requirement in order to comply with specified standards:	266.102(d)(4)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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for period beginning with initial introduction of hazardous waste and ending with initiation of trial burn; such period not to exceed 720 hours; operating requirements in compliance with 266.104-266.107 emissions standards; applicable provisions when seeking waiver from a trial burn; extension for up to 720 additional hours by Director based on good cause demonstration	266.102(d)(4)(i)				
during trial burn, operating requirements sufficient for 266.104-266.107 emissions compliance and in accordance with approved trial burn plan	266.102(d)(4)(ii)				
immediately after trial burn, for minimum period needed to allow sample analysis, data computation, submission and review of trial burn results, and permit modification, operating requirements to ensure 266.104-266.107 emissions compliance	266.102(d)(4)(iii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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2 for duration of permit, operating requirements based on trial burn or 270.22 alternative data, sufficient to ensure 266.104-266.107 emissions compliance	266.102(d)(4)(iv)				
operating requirements specified in the permit apply at all times where hazardous waste is in unit	266.102(e)(1)				
operating conditions, either case-by-case for each hazardous waste to ensure compliance with 266.104(a) DRE performance standard or special operating requirements provided by 266.104(a)(4) DRE trial burn waiver; when no waiver, each set of operating requirements will specify composition of hazardous waste to which they apply; permit-specified operating limits for each hazardous waste include:	266.102(e)(2)(i)				
feed rate of hazardous waste and other fuels as per 266.102(e)(6)	266.102(e)(2)(i)(A)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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minimum and maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(2)(i)(B)				
appropriate controls of hazardous waste firing system	266.102(e)(2)(i)(C)				
allowable variation in boiler and industrial furnace system design or operating procedures	266.102(e)(2)(i)(D)				
minimum combustion gas temperature measured at a location indicative of combustion chamber temperature as per 266.102(e)(6)	266.102(e)(2)(i)(E)				
appropriate indicator of combustion gas velocity as per 266.102(e)(6), unless 270.66 documentation	266.102(e)(2)(i)(F)				
other operating requirements to ensure 266.104(a) DRE compliance	266.102(e)(2)(i)(G)				
permit must incorporate carbon monoxide (CO) limit and, as appropriate, hydrocarbon (HC) limit as per 266.104(b)-(f); permit limits specified:	266.102(e)(2)(ii)				
when complying with 266.104(b)(1) CO standard, permit limit is 100 ppmv	266.102(e)(2)(ii)(A)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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when complying with 266.104(c) alternative CO standard, permit limit based on trial burn, established as specified average, and permit limit for HC is 20 ppmv, except as 266.104(f) provides	266.102(e)(2)(ii)(B)				
when complying with 266.104(f) alternative HC limit, permit limit for HC and CO is baseline level when hazardous waste is not burned	266.102(e)(2)(ii)(C)				
no hazardous waste as feed during start-up and shut-down, unless device is operating within permit conditions; exception except as provided in 266.102(e)(3)(ii) and (iii), operating requirements the permit will specify to ensure 266.105 particulate standard compliance:	266.102(e)(2)(iii)				
total ash feed rate from hazardous waste, other fuels, and industrial furnace feedstocks, as per 266.102(e)(6)	266.102(e)(3)(i)				
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(3)(i)(A)				
	266.102(e)(3)(i)(B)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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operation and maintenance controls for hazardous waste firing system and air pollution control system	266.102(e)(3)(i)(C)				
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(3)(i)(D)				
other operating requirements to ensure 266.111(b) particulate standard compliance	266.102(e)(3)(i)(E)				
no permit conditions to ensure particulate standard compliance for 266.105(b) exempt facilities	266.102(e)(3)(ii)				
for cement kilns and light-weight aggregate kilns, permit conditions shall not limit ash content of hazardous waste or other feed materials	266.102(e)(3)(iii)				
operating requirements the permit will specify to conform with 266.106(b) or (e) Tier I or adjusted Tier I metals feed rate screening limits:	266.102(e)(4)(i)				
total feed rate of each metal in hazardous waste, other fuels, and industrial furnace feedstocks as per 266.102(e)(6)	266.102(e)(4)(i)(A)				
total feed rate of hazardous waste as per 266.102(e)(6)	266.102(e)(4)(i)(B)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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sampling and metals analysis program	266.102(e)(4)(i)(C)				
operating requirements the permit will specify to conform with 266.106(c) Tier II metals emission rate screening limits and 266.106(d) Tier III metals controls:	266.102(e)(4)(ii)				
maximum emission rate for each metal based on average rate during trial burn	266.102(e)(4)(ii)(A)				
feed rate of total and pumpable hazardous waste as per 266.102(e)(6)(i)	266.102(e)(4)(ii)(B)				
metal in specified measured and specified as per 266.102(e)(6)	266.102(e)(4)(ii)(C)				3feed rate of each feedstreams,
	266.102(e)(4)(ii)(C)(1)				
	266.102(e)(4)(ii)(C)(2)				
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(4)(ii)(C)(3)				
maximum combustion gas temperature measured at location indicative of combustion chamber temperature as per 266.102(e)(6)	266.102(e)(4)(ii)(D)				
maximum flue gas temperature at inlet to particulate matter air pollution control system as per 266.102(e)(6)	266.102(e)(4)(ii)(E)				
maximum device	266.102(e)(4)(ii)(F)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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production rate when producing normal product as per 266.102(e)(6)	266.102(e)(4)(ii)(G)				
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(4)(ii)(H)				
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(4)(ii)(I)				
other operating requirements to ensure 266.106(c) or (d) metals standards compliance	266.102(e)(4)(ii)(J)				
operating requirements the permit will specify to conform with 266.106(f) alternative implementation approach:	266.102(e)(4)(iii)				
maximum emission rate for each metal based on average rate	266.102(e)(4)(iii)(A)				
feed rate of total and pumpable hazardous waste as per 266.102(e)(6)(i)	266.102(e)(4)(iii)(B)				
3,4 feed rate of each metal in specified measures and specified as per 266.102(e)(6)	266.102(e)(4)(iii)(C)				feedstreams,
	266.102(e)(4)(iii)(C)(1)				
	266.102(e)(4)(iii)(C)(2)				
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(4)(iii)(D)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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maximum combustion gas temperature measured at location indicative of combustion chamber temperature as per 266.102(e)(6)	266.102(e)(4)(iii)(E)				
maximum flue gas temperature at inlet to particulate matter air pollution control system as per 266.102(e)(6)	266.102(e)(4)(iii)(F)				
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(4)(iii)(G)				
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(4)(iii)(H)				
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(4)(iii)(I)				
other operating requirements to ensure 266.106(c) or (d) metals standards compliance	266.102(e)(4)(iii)(J)				
operating requirements the permit will specify to ensure 266.107(b)(1) Tier I total chloride and chlorine feed rate screening limits conformance: feed rate of total	266.102(e)(5)(i)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

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			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
chloride and chlorine in hazardous waste, other fuels, and industrial furnace feedstocks as per 266.102(e)(6)	266.102(e)(5)(i)(A)				
feed rate of total hazardous waste as per 266.102(e)(6)	266.102(e)(5)(i)(B)				
sampling and analysis program for total chloride and chlorine	266.102(e)(5)(i)(C)				
operating requirements the permit will specify for 266.107(b)(2) Tier II and 266.107(c) Tier III HCl and Cl ₂ emission rate screening limits conformance:	266.102(e)(5)(ii)				
maximum emission rate for HCl and Cl ₂ based on average rate	266.102(e)(5)(ii)(A)				
feed rate of total hazardous waste as per 266.102(e)(6)	266.102(e)(5)(ii)(B)				
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(5)(ii)(C)				
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(5)(ii)(D)				
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(5)(ii)(E)				
allowable variation in system design					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
including air pollution control system or operating procedures	266.102(e)(5)(ii)(F)				
other operating requirements to ensure 266.107(b)(2) or (c) HCl or Cl ₂ standards compliance	266.102(e)(5)(ii)(G)				
as specified in 266.102(e)(2)-(5), each operating parameter shall be measured and permit limits on the parameter established according to following procedures:	266.102(e)(6)(i)				
measured and recorded on instantaneous basis and permit limit based on time-weighted average	266.102(e)(6)(i)(A)				
	266.102(e)(6)(i)(B)(1)				
	266.102(e)(6)(i)(B)(1)(i)				
hourly rolling average basis as defined	266.102(e)(6)(i)(B)(1)(ii)				
5 permit limit based on average overall valid test runs of highest hourly rolling average value per run	266.102(e)(6)(i)(B)(2)				
feed rate limits for carcinogenic metals and lead established on either an hourly rolling average basis or on (up to) to 24-hour rolling average basis; requirements for 2 to 24 hour average					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
period:	266.102(e)(6)(ii)				
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.102(e)(6)(ii)(A)				
	266.102(e)(6)(ii)(B)				
5 specifications the continuous monitor shall meet	266.102(e)(6)(ii)(B)(1)				
feed rate permit limit based on specified average	266.102(e)(6)(ii)(B)(2)				
feed rate limits for metals, total chloride and chlorine, and ash established and monitored based on feedstream concentration and flow rate; flow rate continuously monitored as per 266.102(e)(6)(i) and (ii)	266.102(e)(6)(ii)(C)				
if no simultaneous demonstration of 266.104-266.107 compliance during a set of test runs, operating conditions of additional test runs as close as possible to original operating conditions	266.102(e)(6)(iii)				
	266.102(e)(6)(iv)(A)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
facility to operate under trial burn conditions and reach steady-state operations before obtaining test data to demonstrate 266.104-266.107 emissions standards compliance or establishing operating parameter limits; specific industrial furnaces need not reach steady-state conditions for flow of metals prior to beginning metals emissions compliance testing	266.102(e)(6)(iv)(B)				
trial burn data obtained during emissions sampling are used to establish operating parameter limits in the permit when parameter must be established as per 266.102(e)	266.102(e)(6)(iv)(C)				
	266.102(e)(7)(i)				
	266.102(e)(7)(i)(A)				
requirements for controlling fugitive emissions	266.102(e)(7)(i)(B)				
automatic waste feed cutoff required; Director may limit number of cutoffs per operating period; additional requirements include:	266.102(e)(7)(i)(C)				
	266.102(e)(7)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
maintenance of permit limit for minimum combustion chamber temperature while hazardous waste or residues remain in chamber	266.102(e)(7)(ii)(A)				
exhaust gases ducted to air pollution control system while hazardous waste or residues remain in chamber	266.102(e)(7)(ii)(B)				
continued monitoring of parameters with limits during cutoff and hazardous waste feed not restarted until parameters comply with limits; for parameters monitored on instantaneous basis, conditions for restarting hazardous waste feed	266.102(e)(7)(ii)(C)				
cease burning hazardous waste when changes in combustion properties, feed rates, or design or operating conditions deviate from permit limits	266.102(e)(7)(iii)				
operator or operator, while burning hazardous waste, must monitor and record:	266.102(e)(8)(i)				
specified feed rates and composition of specified materials	266.102(e)(8)(i)(A)				
CO, HC, and oxygen on a continuous basis					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
as specified; monitors installed, operated and maintained as per 266, Appendix IX methods	266.102(e)(8)(i)(B)				
sampling and analysis as requested to verify that requirements established in permit achieve 266.104-266.107 standards	266.102(e)(8)(i)(C)				
monitors record data in permit limit units, unless permit allows otherwise	266.102(e)(8)(ii)				
daily visual inspection of boiler or industrial furnace and associated equipment when they contain hazardous waste	266.102(e)(8)(iii)				
test automatic feed cutoff system and associated alarms at least once every 7 days when hazardous waste is burned unless specified conditions are demonstrated; operational testing at least once every 30 days	266.102(e)(8)(iv)				
monitoring and inspection data recorded and placed in 264.73 operating record	266.102(e)(8)(v)				
compliance with 266.111 if direct transfer of hazardous waste to boiler or industrial furnace without use of					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
storage unit	266.102(e)(9)				
all 266.102-required information and data in facility operating record for not less than three years	266.102(e)(10)				
remove all hazardous waste and hazardous waste residues at closure	266.102(e)(11)				
INTERIM STATUS STANDARDS FOR BURNERS					
establish minimum national standards for owners and operators of existing boilers and industrial furnaces until permitted under 266.102(d) or closed	266.103(a)(1)(i)				
definition of "existing or in existence"; facility has commenced construction if all permits necessary to begin physical construction are obtained and either:	266.103(a)(1)(ii)				
continuous on-site, physical construction program has begun	266.103(a)(1)(ii)(A)				
contractual obligations cannot be cancelled or modified without substantial loss and physical construction is to be completed within reasonable time	266.103(a)(1)(ii)(B)				
if boiler or industrial furnace at facility with permit or interim status, then compliance with					

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
270.42 permit modification or 270.72 interim status changes	266.103(a)(1)(iii)				
266.103 requirements not applicable to hazardous waste and facilities exempt under 266.100(b) or 266.108	266.103(a)(2)				
hazardous waste listed for dioxin or derived from F020-F023, F026 or F027 may not be burned in interim status boiler or industrial furnace	266.103(a)(3)				
	266.103(a)(4)				
	266.103(a)(4)(i)				
	266.103(a)(4)(ii)				
	266.103(a)(4)(iii)				
	266.103(a)(4)(iv)				
	266.103(a)(4)(v)				
	266.103(a)(4)(vi)				
interim status owners and operators subject to specified 265 provisions:	266.103(a)(4)(vii)				
controls that apply to interim status industrial furnaces that feed hazardous waste for a purpose other than solely as an ingredient at any location other than the hot end and	266.103(a)(4)(viii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
where fuels are normally fired:	266.103(a)(5)				
fed at location where temperatures are at least 1800° F	266.103(a)(5)(i)(A)				
determination and documentation in facility record of adequate oxygen	266.103(a)(5)(i)(B)				
for cement kiln systems, hazardous waste fed into kiln	266.103(a)(5)(i)(C)				
6 applicability of 266.104(c) or 266.104(c)(5) hydrocarbon controls	266.103(a)(5)(i)(D)				
criteria for burning hazardous waste for a purpose other than solely as an ingredient:	266.103(a)(5)(ii)				
total concentration of 261, Appendix VIII nonmetal compounds exceed 500 ppm by weight as generated and considered burned for destruction	266.103(a)(5)(ii)(A)				
heating value of 5,000 Btu/lb or more, as generated or as fired, and considered burned as fuel	266.103(a)(5)(ii)(B)				
burning hazardous waste with heating value less than 5,000 Btu/lb prohibited except for purposes of compliance testing for no more than 720 hours	266.103(a)(6)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
266.111 compliance if hazardous waste directly transferred from transport vehicle to boiler or industrial furnace without storage unit use	266.103(a)(7)				
August 21, 1991 submittal date for 266.103(b)(2) information; establish limits for 266.103(b)(3) parameters; certificate of precompliance; burning limited to 266.103(b)(3) conditions until 266.103(b)(8) revised certification of precompliance, or 266.103(c) certification of compliance, or permit is issued	266.103(b)(1)				
information to be submitted with certification of precompliance to support determination and compliance with operating parameter limits	266.103(b)(2)				
	266.103(b)(2)(i)				
	266.103(b)(2)(i)(A)				
	266.103(b)(2)(i)(B)				
	266.103(b)(2)(i)(C)				
	266.103(b)(2)(i)(D)				
general facility information	266.103(b)(2)(i)(E)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
except for facilities complying with Tier I feed rate screening limits provided by 266.106(b) or (e) and 266.107(b)(1) or (e), estimated uncontrolled emissions of particulate matter, each 266.106 metal, hydrogen chloride and chlorine, and following information to support determinations:	266.103(b)(2)(ii)				
feed rate of specified materials in each feedstream	266.103(b)(2)(ii)(A)				
7 estimated partitioning factor to combustion gas for 266.103(b)(2)(ii)(A) materials, basis for estimate, and estimate of partitioning to HCl and Cl ₂ of total chloride and chlorine in feed materials; use best engineering judgment or 266, Appendix IX procedures	266.103(b)(2)(ii)(B)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
for industrial furnaces that recycle collected particulate matter and certify compliance with 266.103(c)(ii)(A) metals emissions standards, estimated enrichment factor for each metal, using best engineering judgment or specified Appendix IX procedures	266.103(b)(2)(ii)(C)				
basis for best engineering judgment; 270.11(d) certification of determinations included in certification of precompliance	266.103(b)(2)(ii)(D)				
for facilities complying with Tier I feed rate screening limits, the feed rate of specified materials in each feedstream	266.103(b)(2)(iii)				
for facilities complying with Tier II or III emission limits for metals or HCl or Cl ₂ , estimated controlled emissions rates of particulate matter, each 266.106 metal, HCl and Cl ₂ , and following information to support determinations:	266.103(b)(2)(iv)				
estimated air pollution control system (APCS) removal efficiency for specified materials	266.103(b)(2)(iv)(A)				

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
use best engineering judgment or 266, Appendix IX procedures	266.103(b)(2)(iv)(B)				
basis for best engineering judgment in conformance with 266.103(b)(2)(ii)(D)	266.103(b)(2)(iv)(C)				
determination of allowable emissions rates for specified materials and information to support such determinations to include:	266.103(b)(2)(v)				
	266.103(b)(2)(v)(A)				
	266.103(b)(2)(v)(A)(1)				
	266.103(b)(2)(v)(A)(2)				
	266.103(b)(2)(v)(A)(3)				
	266.103(b)(2)(v)(A)(4)				
	266.103(b)(2)(v)(A)(5)				
	266.103(b)(2)(v)(A)(6)				
for all facilities:	266.103(b)(2)(v)(A)(7)				
for owners or operators using Tier III site specific dispersion modeling to determine 266.106(d) or 266.107(c) allowable levels, or adjusted Tier I feed rate screening limits under 266.106(e) or 266.107(e):	266.103(b)(2)(v)(B)				
	266.103(b)(2)(v)(B)(1)				
	266.103(b)(2)(v)(B)(2)				
	266.103(b)(2)(v)(B)(3)				
	266.103(b)(2)(v)(B)(4)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
for facilities complying with Tier II or III emissions rate controls for metals or HCl and Cl ₂ , comparison of 266.103(b)(2)(iv) estimated rates with 266.103(b)(2)(v) allowable rates		266.103(b)(2)(vi)			
for facilities complying with Tier I or adjusted Tier I feed rate screening limits for metals or total chloride and chlorine, comparison of actual feed rates determined under 266.103(b)(2)(iii) to Tier I allowable feed rates		266.103(b)(2)(vii)			
for industrial furnaces that feed hazardous waste for any purpose other than solely as an ingredient at any location other than product discharge end of device, documentation of 266.103(a)(5)(i)(A)-(C) compliance		266.103(b)(2)(viii)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
for industrial furnaces that recycle collected particulate matter back into the furnace and that will certify 266.103(c)(3)(ii)(A) metals emissions standards compliance,	266.103(b)(2)(ix)				
applicable particulate matter standard and precompliance limit on metal concentration	266.103(b)(2)(ix)(A)				
establish limits on 266.103(b)(3)(i)-(v) parameters consistent with 266.103(b)(2) determinations and certify the facility will operate within the limits during interim status when there is hazardous waste in the unit until certain conditions are met	266.103(b)(2)(ix)(B)				
feed rate of total hazardous waste and pumpable hazardous waste	266.103(b)(3)				
	266.103(b)(3)(i)				
	266.103(b)(3)(ii)				
	266.103(b)(3)(ii)(A)				
feed rate of each metal in specified feedstreams	266.103(b)(3)(ii)(B)				
total feed rate of chlorine and chloride in total feedstreams	266.103(b)(3)(ii)(C)				
	266.103(b)(3)(iii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
total feed rate of ash in total feedstreams, except ash feed rate for cement kilns and light-weight aggregate kilns is not limited	266.103(b)(3)(iv)				
maximum production rate when producing normal product	266.103(b)(3)(v)				
special operating requirements under 266, Appendix IX for furnaces that recycle collected particulate matter back into furnace and that certify compliance with metals emissions controls under 266.103(c)(3)(ii)(A)	266.103(b)(4)				
limits on 266.103(b)(3) parameters established and continuously monitoring under:	266.103(b)(5)(i)				
8 instantaneous limits	266.103(b)(5)(i)(A)				
	266.103(b)(5)(i)(B)				
	266.103(b)(5)(i)(B)(1)				
5 hourly rolling average basis as defined	266.103(b)(5)(i)(B)(2)				
feed rate limits for carcinogenic metals and lead established on either an hourly rolling average basis or on (up to) 24 hour rolling average basis; requirements for 2 to 24 hour average period:	266.103(b)(5)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.103(b)(5)(ii)(A)				
	266.103(b)(5)(ii)(B)				
5 specifications the continuous monitor shall meet:	266.103(b)(5)(ii)(B)(1)				
feed rate limits for metals, total chloride and chlorine, and ash established and monitored based on feedstream concentration and flow rate; flow rate continuously monitored as per 266.103(b)(5)(i) and (ii)	266.103(b)(5)(ii)(B)(2)				
owner or operator submits notice to major local newspaper and sends copy of notice to State and local government units; provide evidence of notice submittal for publication with certification of pre-compliance to Director; notice must bear specified title and include:	266.103(b)(5)(iii)				
	266.103(b)(6)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		266.103(b)(6)(i)			
		266.103(b)(6)(ii)			
		266.103(b)(6)(iii)			
		266.103(b)(6)(iv)			
		266.103(b)(6)(v)			
		266.103(b)(6)(vi)			
		266.103(b)(6)(vii)			
		266.103(b)(6)(viii)			
		266.103(b)(6)(viii)(A)			
		266.103(b)(6)(viii)(B)			
information to include in public notice		266.103(b)(6)(ix)			
when monitoring systems for 266.103(c)(1)(v)-(xiii) operating parameters are installed and operating in conformance with vendor or 266, Appendix IX specifications, continuous monitoring required and records maintained in operating record		266.103(b)(7)			
submittal of revised certification of pre-compliance under 266.103(b)(2)&(3) procedures		266.103(b)(8)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
266.103(b)(6) public notice requirements not applicable to recertifications	266.103(b)(8)(i)				
operation of facility within limits established for 266.103(b)(3) parameters until 266.103(b) revised certification or 266.103(c) certification of compliance is submitted	266.103(b)(8)(ii)				
language of signed statement that must be included with the certification of precompliance	266.103(b)(9)				
on or before August 21, 1992, conduct emissions testing to document compliance with 266.104(b)-(e), 266.105-266.107 and 266.103(a)(5)(i)(D) emissions standards; submittal of certification of compliance	266.103(c)				
establish limits on 266.103(c)(1)(i)-(xiii) parameters based on operations during compliance test and include with certification of compliance; device will be operated within these limits when hazardous waste is in the unit until permit is issued	266.103(c)(1)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
feed rate of total hazardous waste and pumpable hazardous waste	266.103(c)(1)(i)				
	266.103(c)(1)(ii)				
	266.103(c)(1)(ii)(A)				
feed rate of each metal in specified feedstreams	266.103(c)(1)(ii)(B)				
	266.103(c)(1)(ii)(C)				
total feed rate of chlorine and chloride in total feedstreams	266.103(c)(1)(iii)				
total feed rate of ash in total feedstreams, except ash feed rate for cement kilns and light-weight aggregate kilns is not limited	266.103(c)(1)(iv)				
carbon monoxide concentration and where required, hydrocarbon concentration in stack gas; CO and HC limits	266.103(c)(1)(v)				
maximum production rate when producing normal product	266.103(c)(1)(vi)				
maximum combustion chamber temperature with temperature measured where specified; exception	266.103(c)(1)(vii)				
maximum flue gas temperature entering a particulate matter control device; exception	266.103(c)(1)(viii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
		266.103(c)(1)(ix)			
limits for systems using wet scrubbers, including wet ionizing scrubbers; exception:		266.103(c)(1)(ix)(A)			
		266.103(c)(1)(ix)(B)			
systems using venturi scrubbers, the minimum differential gas pressure across the venturi; exception		266.103(c)(1)(ix)(C)			
		266.103(c)(1)(x)			
		266.103(c)(1)(xi)			
limits for systems using dry scrubbers; exception:		266.103(c)(1)(xi)(A)			
		266.103(c)(1)(xi)(B)			
limits for systems using wet ionizing scrubbers or electrostatic precipitators; exception:		266.103(c)(1)(xii)			
		266.103(c)(1)(xii)(A)			
		266.103(c)(1)(xii)(B)			
systems using fabric filters, the minimum pressure drop; exception		266.103(c)(1)(xiii)			
at least 30 days prior to 266.103(c)(3) compliance testing, notify Director and submit required information:					
		266.103(c)(2)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
	266.103(c)(2)(i)				
	266.103(c)(2)(i)(A)				
	266.103(c)(2)(i)(B)				
	266.103(c)(2)(i)(C)				
general facility information	266.103(c)(2)(i)(D)				
	266.103(c)(2)(ii)				
	266.103(c)(2)(ii)(A)				
	266.103(c)(2)(ii)(B)				
	266.103(c)(2)(ii)(C)				
	266.103(c)(2)(ii)(D)				
	266.103(c)(2)(ii)(D)(1)				
	266.103(c)(2)(ii)(D)(2)				
	266.103(c)(2)(ii)(D)(3)				
specific information on each device to be tested	266.103(c)(2)(ii)(E)				
	266.103(c)(2)(ii)(F)				
information on testing planned, including complete copy of test protocol and QA/QC plan, and summary description for each test that provides specified information	266.103(c)(2)(iii)				
	266.103(c)(2)(iii)(A)				
	266.103(c)(2)(iii)(B)				
compliance testing under 266.103(b) and 266.103(c)(2) conditions	266.103(c)(3)(i)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
industrial furnaces that recycle collected particulate matter from air pollution control system must test to determine 266.106(c) or (d) metals standards compliance using one of the following procedures:	266.103(c)(3)(ii)				
266, Appendix IX testing requirements in "Alternative Method for Implementing Metals Controls"	266.103(c)(3)(ii)(A)				
stack emissions testing for 6 hrs/day while hazardous waste is burned during interim status; conditions for testing; analysis for metals content to assure 266.106(c) or (d) compliance; parameters for which operating limits must be established under 266.103(c)(3)	266.103(c)(3)(ii)(B)				
	266.103(c)(3)(ii)(B)(1)				
	266.103(c)(3)(ii)(B)(2)				
	266.103(c)(3)(ii)(B)(3)				
	266.103(c)(3)(ii)(B)(4)				
	266.103(c)(3)(ii)(B)(5)				
conduct compliance testing and establish limits on 266.103(c)(1) parameters after kiln system has been conditioned and has reached equilibrium with metals feed and metals emissions; conditions to be met during conditioning	266.103(c)(3)(ii)(C)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
if no simultaneous demonstration of 266.104-266.107 compliance during a set of test runs, operating conditions of additional test runs as close as possible to original operating conditions	266.103(c)(3)(iii)(A)				
facility to operate under compliance test conditions and reach steady-state operations before obtaining test data to demonstrate 266.104-266.107 emissions standards compliance or establishing operating parameter limits; specific industrial furnaces need not reach steady-state conditions prior to beginning metals compliance testing	266.103(c)(3)(iii)(B)				
compliance test data obtained during emissions sampling are used to establish operating parameter limits in the certification of compliance when parameter must be established as per 266.103(c)(1)	266.103(c)(3)(iii)(C)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
within 90 days of completing compliance testing, certification to Director of compliance with 266.104(b), (c) and (e), 266.105-266.107 and 266.103(a)(5)(i)(D) emissions standards; certification must include:	266.103(c)(4)				
	266.103(c)(4)(i)				
	266.103(c)(4)(i)(A)				
	266.103(c)(4)(i)(B)				
	266.103(c)(4)(i)(C)				
	266.103(c)(4)(i)(D)				
	266.103(c)(4)(i)(E)				
	266.103(c)(4)(i)(F)				
	266.103(c)(4)(i)(G)				
	266.103(c)(4)(i)(H)				
general facility and testing information	266.103(c)(4)(i)(I)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
		266.103(c)(4)(ii)			
		266.103(c)(4)(ii)(A)			
		266.103(c)(4)(ii)(B)			
		266.103(c)(4)(ii)(B)(1)			
		266.103(c)(4)(ii)(B)(2)			
		266.103(c)(4)(ii)(B)(3)			
		266.103(c)(4)(ii)(B)(4)			
		266.103(c)(4)(ii)(B)(5)			
		266.103(c)(4)(ii)(B)(6)			
		266.103(c)(4)(ii)(B)(7)			
		266.103(c)(4)(ii)(B)(8)			
specific information on each test	266.103(c)(4)(ii)(B)(9)				
comparison of actual emissions per test with emissions limits prescribed by 266.104(b),(c)&(e) and 266.105-266.107 and established in 266.103(b) certification of precompliance	266.103(c)(4)(iii)				
determination of operating limits based on all valid runs for 266.103(c)(1) parameters using one of two procedures:	266.103(c)(4)(iv)				
instantaneous limits	266.103(c)(4)(iv)(A)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
	266.103(c)(4)(iv)(B)(1)(i)				266.103(c)(4)(iv)(B)(1)
hourly rolling average basis as defined	266.103(c)(4)(iv)(B)(1)(ii)				parameter operating
limit based on compliance test data and specific average	266.103(c)(4)(iv)(B)(2)				
feed rate limits for carcinogenic metals and lead established on either an hourly rolling average basis or on (up to) 24 hour rolling average basis; requirements for 2 to 24 hour average period:	266.103(c)(4)(iv)(C)				
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.103(c)(4)(iv)(C)(1)				
	266.103(c)(4)(iv)(C)(2)				
specifications the continuous monitor shall meet	266.103(c)(4)(iv)(C)(2)(i)				
	266.103(c)(4)(iv)(C)(2)(ii)				
operating limit for feed rate of each metal established based on compliance test data as the specified average	266.103(c)(4)(iv)(C)(3)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
feed rate limits for metals, total chloride and chlorine, and ash established and monitored based on feed-stream concentration and flow rate; flow rate continuously monitored as per 266.103(c)(4)(iv)(A)-(C)	266.103(c)(4)(iv)(D)				
language of statement to accompany the certification of compliance	266.103(c)(4)(v)				
if required to comply with 266.104(c) or 266.103(a)(5)(i)(D) HC controls, conditioned gas monitoring system may be used in conformance with 266, Appendix IX specifications, provided certification of compliance is submitted without 266.103(c)(7) time extension	266.103(c)(5)				
special operating requirements for industrial furnaces that recycle collected particulate matter from air pollution control system:	266.103(c)(6)				
266, Appendix IX operating requirements in "Alternative Method to Implement the Metals Controls" if complying with 266.103(c)(3)(ii)(A)	266.103(c)(6)(i)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
operating requirements of 266.103(c)(3)(ii)(B) if complying with that paragraph	266.103(c)(6)(ii)				
requirements if fail to submit complete certification of compliance for 266.104-266.107 emissions standards by August 21, 1992:	266.103(c)(7)(i)				
9 stop burning hazardous waste and begin 266.103(l) closure	266.103(c)(7)(i)(A)				
limit hazardous waste burning to a total period of 720 hours beginning August 21, 1992; submit notification to Director by August 21, 1992, stating operation under restricted interim status and intention to resume hazardous waste burning; submit complete certification of compliance by August 23, 1993	266.103(c)(7)(i)(B)				
obtain case-by-case time extension under 266.103(c)(7)(ii)	266.103(c)(7)(i)(C)				
condition under which a case-by-case time extension may be requested for any 266.103(c) time limit	266.103(c)(7)(ii)				
in granting extension, Director may apply specified conditions	266.103(c)(7)(ii)(A)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
if time extension requested to obtain RCRA permit because 266.104(c) HC limit cannot be met:	266.103(c)(7)(ii)(B)				
what Director shall consider:	266.103(c)(7)(ii)(B)(1)				
determine if complete Part B permit application that includes 270.22(b) information has been submitted	266.103(c)(7)(ii)(B)(1)(i)				
consider if good faith effort to certify compliance with all other emission controls has been made	266.103(c)(7)(ii)(B)(1)(ii)				
5 if extension granted, require facility to operate under 266.104(f)(1) baseline CO and HC flue gas concentration limits	266.103(c)(7)(ii)(B)(2)				
submit at any time a revised certification of compliance under specific procedures:	266.103(c)(8)				
prior to submittal, may not burn hazardous waste for more than 720 hours under operating conditions that exceed those in current certification of compliance; such burning conducted only to determine if 266.104-266.107 emissions standards can be met under revised conditions	266.103(c)(8)(i)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
at least 30 days prior to first burning under revised conditions, notify Director and submit specific information:	266.103(c)(8)(ii)				
EPA facility ID number, facility name, contact person, telephone number and address	266.103(c)(8)(ii)(A)				
operating conditions owner/operator is seeking to revise and description of changes that prompted need to revise	266.103(c)(8)(ii)(B)				
determination that under revised operating conditions, 266.104-266.107 standards unlikely to be exceeded; 266.103(b)(2) information for documentation	266.103(c)(8)(ii)(C)				
complete emissions testing protocol for pretesting and new compliance test, including schedule for 266.104-266.107 emission standards compliance; 30 day prior written notice if revision in compliance test date	266.103(c)(8)(ii)(D)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
conduct compliance test under revised operating conditions and submitted protocol to determine 266.104-266.107 emissions standards compliance	266.103(c)(8)(iii)				
submit revised certification of compliance under 266.103(c)(4)	266.103(c)(8)(iv)				
recertification of compliance within three years; if recertification under new operating conditions, 266.103(c)(8) compliance	266.103(d)				
if noncompliance with interim status compliance schedule, burning is to terminate on date deadline is missed, closure to begin under 266.103(l), and no resumption of burning except under 270.66 operating permit	266.103(e)				
no hazardous waste as feed during start-up and shut-down unless device is operating within certification conditions	266.103(f)				
during 266.103(c)(3) compliance test and upon certification of compliance, automatic waste feed cutoff required; additional requirements include:	266.103(g)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
maintenance of minimum combustion chamber temperature while hazardous waste or residues remain in chamber to minimize emissions or organic compounds	266.103(g)(1)				
if compliance with combustion chamber temperature limit is based on hourly rolling average, minimum temperature during compliance test is averaged over all runs of the lowest hourly rolling average for each run	266.103(g)(1)(i)				
if compliance with combustion chamber temperature limit is based on instantaneous temperature measurement, minimum temperature during compliance test is time-weighted average during all test runs	266.103(g)(1)(ii)				
continued monitoring of operating parameters with limits during cutoff; no restart of hazardous waste feed until parameters comply with certification of established compliance limits	266.103(g)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		266.103(h)			
		266.103(h)(1)			
requirements for controlling fugitive emissions		266.103(h)(2)			
cease burning hazardous waste when changes in combustion properties, feed rates, feed stocks/fuels or design or operating conditions deviate from permit limits		266.103(h)(3)			
owner or operator, while burning hazardous waste, must monitor and record: specified feed rates and composition of specified materials to ensure conformance with certification		266.103(i)			
CO, HC and oxygen on a continuous basis as specified; monitors installed, operated and maintained as per 266, Appendix IX methods		266.103(j)(1)			
sampling and analysis as requested by Director to verify compliance with 266.104-266.107 standards		266.103(j)(1)(i)			
daily visual inspection of boiler or industrial furnace and associated equipment when they contain hazardous waste		266.103(j)(1)(ii)			
		266.103(j)(1)(iii)			
		266.103(j)(2)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
test automatic feed cutoff system and associated alarms at least once every 7 days when hazardous waste is burned unless specified conditions are demonstrated; operational testing at least once every 30 days	266.103(j)(3)				
monitoring and inspection data recorded and placed in operating log	266.103(j)(4)				
all 266.103-required information and data kept in facility operating record for three years	266.103(k)				
remove all hazardous waste and hazardous waste residues at closure and comply with 265.111-265.115	266.103(l)				
STANDARDS TO CONTROL ORGANIC EMISSIONS					
except as 266.104(a)(3) provides, DRE of 99.99% required for all organic hazardous constituents; demonstration during trial burn for each POHC in permit for each waste feed; DRE equation	266.104(a)(1)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
POHC compliance with DRE requirements to be demonstrated in trial burn in conformance with 270.66 procedures; designation of POHCs for each waste feed by Director based on degree of difficulty of destruction and on waste feed concentrations considering analyses submitted with Part B; 261, Appendix VIII compounds unless demonstration of other compound is suitable indicator of DRE requirements	266.104(a)(2)				
10 DRE of 99.9999% for F020-F023, F026 or F027 as determined from 266.104(a)(1) equation; notification of intent to burn such wastes	266.104(a)(3)				
owners and operators of boilers operating under 266.110 requirements are exempt from DRE trial burn	266.104(a)(4)				
owners and operators of boilers or industrial furnaces in compliance with 266.109(a) are exempt from DRE trial burn	266.104(a)(5)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
except as 266.104(c) provides, CO stack gas concentration cannot exceed 100 ppmv on an hourly rolling average basis, continuously corrected to 7% oxygen, dry gas basis	266.104(b)(1)				
continuous monitoring of CO and oxygen in conformance with 266, Appendix IX specifications	266.104(b)(2)				
demonstration of 100 ppmv CO compliance during trial burn or compliance test; highest hourly rolling average CO must not exceed 100 ppmv	266.104(b)(3)				
stack gas concentration of CO may exceed 100 ppmv if HC concentrations do not exceed 20 ppmv; exception under 266.104(f)	266.104(c)(1)				
HC limits established on hourly rolling average basis, reported as propane, continuously corrected to 7% oxygen, dry gas basis	266.104(c)(2)				
HC continuously monitored under 266, Appendix IX specifications; CO continuously monitored under 266.104(b)(2)	266.104(c)(3)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
alternative CO standard based on trial burn data (new facility) and compliance test (interim status facility); definition and implementation	266.104(c)(4)				
industrial furnaces that feed hazardous waste for purpose other than solely as an ingredient at any location other than end where products are normally discharged and fuels are normally fired must comply with 266.104(c) or (f) hydrocarbon limits, irrespective of whether 266.104(b) standard is met	266.104(d)				
site-specific risk assessment for specific boilers and industrial furnaces to demonstrate that chlorinated dibenzo-p-dioxins and dibenzofurans emissions do not result in increased lifetime cancer risk exceeding 1 in 100,000 MEI; assessment requirements:	266.104(e)				
determine emission rates of certain tetra-octa congeners during trial burn or compliance test using 266, Appendix IX Method 23	266.104(e)(1)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
estimate 2,3,7,8-TCDD toxicity equivalence of specified congeners using 266, Appendix IX procedures; formula for estimation of equivalent emission rate	266.104(e)(2)				
conduct dispersion modeling using recommended methods to predict maximum annual average off-site ground level concentrations of 2,3,7,8-TCDD equivalents; maximum annual average on-site concentration used when a person resides on-site	266.104(e)(3)				
specified 2,3,7,8-TCDD ratio shall not exceed 1.0	266.104(e)(4)				
for industrial furnaces that cannot meet the 20 ppmv HC limit because of organic matter in raw material, Director may establish alternative HC limit on case-by-case basis; cement kilns equipped with by-pass duct meeting 266.104(g) requirements not eligible for alternative limit	266.104(f)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
demonstrate that facility is designed and operated to minimize HC emissions from fuels and raw materials when baseline HC (and CO) level is determined; baseline level defined; may be multiple baseline levels	266.104(f)(1)				
develop approach to monitor over time changes in facility operation that could reduce baseline HC level	266.104(f)(2)				
conduct emissions testing during trial burn to:	266.104(f)(3)				
determine baseline HC (and CO) level	266.104(f)(3)(i)				
demonstrate that HC (and CO) levels do not exceed baseline level when hazardous waste is burned	266.104(f)(3)(ii)				
identify types and concentrations of 261, Appendix VIII organic compounds that are emitted; conduct dispersion modeling; on-site ground level concentrations evaluated if person resides on-site	266.104(f)(3)(iii)				
	266.104(f)(3)(iii)(A)				
	266.104(f)(3)(iii)(B)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
demonstrate that maximum annual average ground level concentrations of 266.104(f)(3)(iii) compounds do not exceed specified levels	266.104(f)(3)(iv)				
monitor and report all 266.104(f) hydrocarbon levels as 266.104(c)(1)&(2) specify	266.104(f)(3)(iv)(A)				
	266.104(f)(3)(iv)(B)				
	266.104(f)(3)(iv)(C)				
cement kilns may comply with CO and HC limits under 266.104(b)-(d) by monitoring in the by-pass duct provided:	266.104(f)(4)				
fire hazardous waste only into the kiln	266.104(g)				
11 by-pass duct diverts minimum of 10% of kiln off-gas into duct	266.104(g)(1)				
simultaneous demonstration of 266.104 compliance by emissions testing or during separate runs under identical operating conditions; data to demonstrate compliance with CO and HC limits or to establish alternative limits must be obtained during DRE testing, CDD/CDF testing and comprehensive organic emissions testing	266.104(g)(2)				
	266.104(h)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
compliance with permit operating requirements regarded as compliance with 266.104; if such compliance is insufficient, modification or revocation and re-issuance of permit under 270.41	266.104(i)				
STANDARDS TO CONTROL PARTICULATE MATTER					
particulate matter emissions limited to 180 milligrams per dry standard cubic meter after specified correction using Part 60, Appendix A, Methods 1-5 and 266, Appendix IX procedures	266.105(a)				
owner or operator meeting 266.109(b) requirements for low risk waste exemption is exempt from particulate matter standard	266.105(b)				
compliance with permit operating requirements regarded as compliance with 266.105; if such compliance is insufficient, modification or revocation and re-issuance of permit under 270.41	266.105(c)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
STANDARDS TO CONTROL METALS EMISSIONS					
compliance with 266.106(b), (c), (d), (e), or (f) for each 266.106(b) metal that is detectable in waste using specified procedures	266.106(a)				
Tier I feed rate screening limits for metals specified in 266, Appendix I as a function of terrain-adjusted effective stack height and terrain and land use in facility vicinity; criteria for ineligible facilities in 266.107(b)(7)	266.106(b)				
feed rates of antimony, barium, lead, mercury, thallium and silver in all feedstreams shall not exceed 266, Appendix I screening limits	266.106(b)(1)				
what feed rate screening limits for antimony, barium, mercury, thallium, and silver are based on	266.106(b)(1)(i)				
	266.106(b)(1)(i)(A)				
	266.106(b)(1)(i)(B)				
	266.106(b)(1)(ii)				
	266.106(b)(1)(ii)(A)				
what feed rate screening limit for lead is based on	266.106(b)(1)(ii)(B)				
	266.106(b)(1)(ii)(C)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
feed rates of arsenic, cadmium, beryllium and chromium in all feedstreams shall not exceed values derived from 266, Appendix I screening limits; feed rate limit equation	266.106(b)(2)(i)				
	266.106(b)(2)(ii)				
what feed rate screening limits for carcinogenic metals are based on equation for terrain-adjusted effective stack height (TESH)	266.106(b)(2)(ii)(A)				
stack height may not exceed 40 CFR 51.100(ii) good engineering practice if TESH for a particular facility is not listed in table in appendices, nearest lower TESH to be used; if TESH ≤ 4 meters, a value of 4 meters shall be used	266.106(b)(2)(ii)(B)				
screening limits function of non-complex or complex terrain; criteria; use U.S. Geological Survey 7.5-minute topographic maps	266.106(b)(3)(i)				
screening limits function of urban or rural land use; determination using 266, Appendices IX or X	266.106(b)(3)(ii)				
	266.106(b)(3)(iii)				
	266.106(b)(4)				
	266.106(b)(5)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
facilities with multiple stacks must comply with screening limits for all units assuming all hazardous waste is fed into device with worst-case stack; worst-case stack equation, with lowest K value the worst-case stack	266.106(b)(6)				
	266.106(b)(7)				
	266.106(b)(7)(i)				
	266.106(b)(7)(ii)				
criteria under which Tier III standards apply instead of Tier I and Tier II screening limits	266.106(b)(7)(iii)				
	266.106(b)(7)(iv)				
	266.106(b)(7)(v)				
monitor feed rate of metals in each feed-stream to ensure screening limits are not exceeded	266.106(b)(8)				
Tier II emission rate screening limits function of stack height and terrain and land use in facility vicinity; ineligible facilities comply with 266.106(b)(7) criteria	266.106(c)				
emission rates of antimony, barium, lead, mercury, thallium and silver shall not exceed 266, Appendix I screening limits	266.106(c)(1)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
emission rates of arsenic, cadmium, beryllium and chromium shall not exceed values derived from 266, Appendix I screening limits; emission rate equation	266.106(c)(2)				
emission rate limits implemented by limiting individual metal feed rates to trial burn or compliance test levels; averaging periods; monitoring of metals feed rate in each feedstream to ensure compliance with 266.102 or 266.103 limits	266.106(c)(3)				
266.106(b) definitions and limitations for specified terms also apply to 266.106(c) Tier II emission rate screening limits	266.106(c)(4)				
facilities with multiple stacks must comply with emissions screening limits for any such stacks assuming all hazardous waste is fed into device with worst-case stack	266.106(c)(5)(i)				
worst-case stack determined by 266.106(b)(6) procedures	266.106(c)(5)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
for each metal, total emissions from those stacks shall not exceed worst-case stack screening limit	266.106(c)(5)(iii)				
conformance with Tier III metals control demonstrated by emissions testing, air dispersion modeling, and demonstration that acceptable ambient levels are not exceeded	266.106(d)(1)				
266, Appendices IV and V list acceptable ambient levels; RACs listed for noncarcinogenic metals and 10^{-5} RSDs listed for carcinogenic metals; RSD defined	266.106(d)(2)				
sum of the ratios of predicted ambient concentrations to risk-specific dose for all carcinogenic metals emitted shall not exceed 1.0; equation	266.106(d)(3)				
for noncarcinogenic metals, predicted maximum annual average off-site ground level concentration shall not exceed the RAC	266.106(d)(4)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
owners/operators with multiple stacks must conduct emissions testing and dispersion modeling to demonstrate that aggregate emissions do not exceed acceptable ambient levels	266.106(d)(5)				
under Tier III, feed rates limited to trial burn or compliance test levels; averaging periods same as under 266.106(b)(1)(i)-(ii) and (b)(2)(ii); monitor metals feed rate in each feedstream to ensure 266.102 or 266.103 compliance	266.106(d)(6)				
adjusted Tier I feed rate screening limits to account for site-specific dispersion modeling; how to estimate adjusted feed rate; feed rate screening limits for carcinogenic metals implemented under 266.106(b)(2)	266.106(e)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
alternative implementation approaches approved by Director on a case-by-case basis for Tier II or III metals emission limits	266.106(f)(1)				
	266.106(f)(2)				
	266.106(f)(2)(i)				
determination of 266.106(d) emissions limits for each noncarcinogenic and carcinogenic metal	266.106(f)(2)(ii)				
	266.106(f)(2)(ii)(A)				
	266.106(f)(2)(ii)(B)				
use 266, Appendix IX Multiple Metals Train to conduct emissions testing	266.106(g)(1)				
chromium emissions assumed to be hexavalent chromium unless owner/operator determines otherwise	266.106(g)(2)				
dispersion modeling conducted according to specified methods to predict maximum annual average off-site ground level concentration; on-site concentrations when person resides on-site	266.106(h)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
compliance with 266.102 permit operating requirements regarded as 266.106 compliance unless evidence indicates otherwise; modification or revocation and re-issuance of permit under 270.41	266.106(i)				
STANDARDS TO CONTROL HYDROGEN CHLORIDE (HCl) AND CHLORINE GAS (Cl₂) EMISSIONS					
Compliance with HCl and Cl ₂ controls under 266.107(b), (c), or (d)	266.107(a)				
Tier I feed rate screening limits for total chlorine specified in 266, Appendix II as a function of stack height and terrain and land use in facility vicinity; feed rate of total chlorine and chloride in all feed-streams not to exceed specified levels	266.107(b)(1)				
Tier II emission rate screening limits for HCl and Cl ₂ specified in 266, Appendix III as a function of terrain-adjusted effective stack height and terrain and land use in facility vicinity; stack emission rates not to exceed specified levels	266.107(b)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
266.106(b) definitions and limitations for specified terms also apply to 266.107(b) screening limits	266.107(b)(3)				
facilities with multiple stacks subject to HCl or Cl ₂ emissions controls must comply with Tier I and II screening limits assuming all hazardous waste is fed into device with worst-case stack	266.107(b)(4)				
worst-case stack determined by 266.106(b)(6) procedures	266.107(b)(4)(i)				
under Tier I, total feed rate of chlorine and chloride to all subject devices not to exceed worst-case stack screening limit	266.107(b)(4)(ii)				
under Tier II, total HCl and Cl ₂ emissions from all subject stacks not to exceed worst-case stack screening limit	266.107(b)(4)(iii)				
conformance with Tier III controls demonstrated by HCl and Cl ₂ emissions testing, air dispersion modeling, and demonstration that acceptable ambient levels are not exceeded	266.107(c)(1)				
266, Appendix IV lists RACs for HCl and Cl ₂	266.107(c)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
facilities with multiple stacks subject to HCl or Cl ₂ emissions controls must conduct emissions testing and dispersion modeling to demonstrate that aggregate emissions do not exceed acceptable ambient levels for HCl and Cl ₂	266.107(c)(3)				
12 HCl and Cl ₂ controls implemented by limiting feed rate of total chlorine and chloride in all feedstreams; feed rate under Tier I limited to Tier I screening limits; feed rate under Tiers II and III limited to trial burn or compliance test feed rates; feed rate limits based on:	266.107(d)				
adjusted Tier I feed rate screening limits to account for site-specific dispersion modeling; how to determine these adjusted rates	266.107(d)(1)				
emissions testing for HCl and Cl ₂ conducted using 266, Appendix IX procedures	266.107(d)(2)				
dispersion modeling conducted according to 266.106(h) provisions	266.107(e)				
	266.107(f)				
	266.107(g)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
for permit enforcement purposes, compliance with 266.102 permit operating requirements regarded as 266.107 compliance unless evidence indicates otherwise; modification or revocation and re-issuance of permit under 270.41	266.107(h)				
SMALL QUANTITY ON-SITE BURNER EXEMPTION					
owners and operators that burn hazardous waste in on-site boiler or industrial furnace exempt from 266.108 requirements provided:	266.108(a)				
quantity of hazardous waste burned for a calendar month does not exceed limits shown in table entitled "Exempt Quantities for Small Quantity Burner Exemption" based on 266.106(b)(3) terrain-adjusted effective stack height; table	266.108(a)(1)				
maximum hazardous waste firing rate does not exceed 1% of total fuel requirements on a volume basis	266.108(a)(2)				
minimum heating value of 5,000 Btu/lb	266.108(a)(3)				
does not contain F020-F023, F026 or F027	266.108(a)(4)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
if mixed with non-hazardous waste, compliance with 266.108(a) quantity before mixing	266.108(b)				
equation for implementing 266.108(a)(1) quantity limits if burning in more than one exempt on-site boiler or industrial furnace	266.108(c)				
	266.108(d)				
one-time signed, written notification requirements for small quantity burner exemption	266.108(d)(1)				
	266.108(d)(2)				
	266.108(d)(3)				
maintain for at least 3 years sufficient records documenting quantity firing rate and heating value limits compliance, including quantity burned per calendar month and heating value	266.108(e)				
LOW RISK WASTE EXEMPTION					
waiver of 266.104(a) DRE standard if device is operated in conformance with 266.109(a)(1) and burning will not result in unacceptable adverse health effects as per 266.109(a)(2) procedures	266.109(a)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
		266.109(a)(1)			
		266.109(a)(1)(i)			
		266.109(a)(1)(ii)			
operating requirements for device		266.109(a)(1)(iii)			
		266.109(a)(1)(iv)			
		266.109(a)(2)			
		266.109(a)(2)(i)			
		266.109(a)(2)(ii)			
		266.109(a)(2)(iii)			
		266.109(a)(2)(iii)(A)			
		266.109(a)(2)(iii)(B)			
		266.109(a)(2)(iv)			
procedures to demonstrate that hazardous waste burning will not pose unacceptable adverse public health effects		266.109(a)(2)(iv)(A)			
		266.109(a)(2)(iv)(B)			
		266.109(a)(2)(iv)(C)			
conditions under particulate matter standard is waived		266.109(b)			which the 266.105
		266.109(b)(1)			
		266.109(b)(2)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
WAIVER OF DRE TRIAL BURN FOR BOILERS					
boilers operating under 266.110 requirements and that do not burn F020-F023, F026 or F027 considered in compliance with 266.104(a) DRE standard, and trial burn to demonstrate DRE is waived; when burning hazardous waste:	266.110				
"primary fuel" defined; minimum of 50% primary fuel firing rate, determined on total heat or volume input basis	266.110(a)				
boiler load defined and not less than 40% minimum as-fired heating value of 8,000 Btu/lb	266.110(b)				
conformance with 266.104(b)(1) carbon monoxide standard; boilers subject to 266.110 DRE waiver not eligible for 266.104(c) alternative carbon monoxide standard	266.110(c)				
boiler must be water-tube type that does not feed fuel using a stoker or stoker type mechanism	266.110(d)				
	266.110(e)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
conditions under which hazardous waste shall be fired directly into primary fuel flame zone of combustion chamber with an air or steam, mechanical or rotary cup atomization system	266.110(f)				
	266.110(f)(1)				
	266.110(f)(2)				
	266.110(f)(3)				
	266.110(f)(4)				
STANDARDS FOR DIRECT TRANSFER					
266.111 regulations apply to boilers and industrial furnaces subject to 266.102 or 266.103 if direct transfer of hazardous waste from transport vehicle to boiler or industrial furnace without use of storage unit	266.111(a)				
for 266.111, terms have meanings given in 266.111(b)(1)	266.111(b)(1)intro				
"direct transfer equipment"	266.111(b)(1)				
"container"	266.111(b)(1)				
"tank systems" means direct transfer equipment when Subparts I and J of Parts 264 and 265 are referenced	266.111(b)(2)				
no direct transfer of pumpable hazardous waste from open-top container to boiler or industrial furnace	266.111(c)(1)				
direct transfer equipment requirements	266.111(c)(2)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
	266.111(c)(3)				
	266.111(c)(3)(i)				
	266.111(c)(3)(ii)				
direct transfer of hazardous waste to boiler or industrial furnace conducted so that it does not result in any 266.111(c)(3)(i)-(vi) situation	266.111(c)(3)(iii)				
	266.111(c)(3)(iv)				
	266.111(c)(3)(v)				
	266.111(c)(3)(vi)				
conditions under which hazardous waste shall not be placed in direct transfer equipment	266.111(c)(4)				
appropriate controls and practices to prevent spills and overflows from direct transfer equipment or its secondary containment system	266.111(c)(5)				
	266.111(c)(5)(i)				
	266.111(c)(5)(ii)				
	266.111(d)				
	266.111(d)(1)				
requirements associated with area where containers are located	266.111(d)(2)				
	266.111(d)(3)				
direct transfer equipment must meet following requirements:	266.111(e)				
	266.111(e)(1)				
secondary containment requirements for new and existing equipment	266.111(e)(1)(i)				
	266.111(e)(1)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
for existing direct transfer equipment without secondary containment, determination whether leaking or unfit for use; written assessment reviewed and certified by qualified, registered professional engineer in accordance with 270.11(d) by August 21, 1992	266.111(e)(2)(i)				
	266.111(e)(2)(ii)				
	266.111(e)(2)(ii)(A)				
	266.111(e)(2)(ii)(B)				
	266.111(e)(2)(ii)(C)				
	266.111(e)(2)(ii)(D)				
minimum considerations for assessment if, due to 266.111(e)(2)(i)&(iv) assessment, direct transfer equipment found to be leaking or unfit for use, compliance with 265.196(a) and (b)	266.111(e)(2)(ii)(E)				
inspection requirements at least once each operating hour when transferring hazardous waste from container to boiler or industrial furnace	266.111(e)(3)(i)				
	266.111(e)(3)(i)(A)				
	266.111(e)(3)(i)(B)				
		266.111(e)(3)(i)(C)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
inspect cathodic protection systems to ensure 265.195(b) compliance	266.111(e)(3)(ii)				
records of inspections maintained in operating record for at least 3 years	266.111(e)(3)(iii)				
265.192 compliance for design and installation of new ancillary equipment	266.111(e)(4)				
265.196 compliance for response to leaks or spills	266.111(e)(5)				
265.197 closure compliance, except 265.197(c)(2)-(4)	266.111(e)(6)				

13 REGULATION OF RESIDUES

residue derived from burning or processing of hazardous waste is not excluded under 261.4(b)(4), (7) or (8) unless device and owner or operator meet the following requirements:	266.112				
	266.112(a)				
	266.112(a)(1)				
	266.112(a)(2)				
criteria the device must meet:	266.112(a)(3)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
demonstration by owner or operator that hazardous waste does not significantly affect residue by demonstrating conformance with either of two criteria:	266.112(b)				
comparison of waste-derived residue with normal residue for 261, Appendix VIII constituents; procedures to be used	266.112(b)(1)				
determination of concentrations of toxic constituents of concern in normal residue based on analyses of a minimum of 10 composite samples; determine upper 95% confidence level about the mean for the statistically-derived concentration; when to revise; how to determine the upper 95% confidence level	266.112(b)(1)(i)				
determination of concentrations of toxic constituents of concern in waste-derived residue based on analysis of samples composited over a period of not more than 24 hours; not significantly higher if doesn't exceed 266.112(b)(1)(i) normal residue concentration	266.112(b)(1)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
concentration of non-metal toxic constituents of concern in waste derived residue must not exceed health-based limits specified in 266, Appendix VII; if no limit in Appendix VII, limit is 0.002 mg/kg or level of detection, whichever is higher	266.112(b)(2)(i)				
for metal constituents, in extract concentration obtained using 261.24 TCLP not to exceed 266, Appendix VII limits	266.112(b)(2)(ii)				
	266.112(c)				
	266.112(c)(1)				
records to document 266.112 compliance to be retained for 3 years; information to be recorded	266.112(c)(2)				
	266.112(c)(2)(i)				
	266.112(c)(2)(ii)				

APPENDIX I TO PART 266

TIER I AND TIER II FEED RATE AND EMISSIONS SCREENING LIMITS FOR METALS

Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Noncomplex Terrain (see 56 FR 7728)	Appendix I/Table I-A
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US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Noncomplex Terrain (see 56 FR 7229)		Appendix I/Table I-B			
Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Complex Terrain (see 56 FR 7729)		Appendix I/Table I-C			
Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Noncomplex Terrain (see 56 FR 7230)		Appendix I/Table I-D			
Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Complex Terrain (see 56 FR 7230)		Appendix I/Table I-E			

APPENDIX II TO PART 266

TIER I FEED RATE SCREENING LIMITS FOR TOTAL CHLORINE AND CHLORIDE

Tier I Feed Rate Screening Limits for Chlorine for Facilities in Noncomplex and Complex Terrain (see 56 FR 7231)	Appendix II
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US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

APPENDIX III TO PART 266

TIER II EMISSION RATE SCREENING LIMITS FOR FREE CHLORINE AND HYDROGEN CHLORIDE

Tier II Emissions
 Screening Limits for
 Cl₂ and HCl in Non-
 complex Terrain (see
 56 FR 7231-7232) Appendix III

Tier II Emissions
 Screening Limits for
 Cl₂ and HCl in Com-
 plex Terrain
 (see 56 FR 7232) Appendix III

APPENDIX IV PART 266

REFERENCE AIR CONCENTRATIONS

Constituents, CAS
 Nos. and RAC
 (see 56 FR 7232) Appendix IV

APPENDIX V TO PART 266

RISK SPECIFIC DOSES

Constituents, CAS
 Nos., Unit risk and
 RsD (see 56 FR 7232-
 7233) Appendix V

APPENDIX VI TO PART 266

STACK PLUME RISE

flow rates and ex-
 haust temperatures
 (see 56 FR 7233-
 7234) Appendix VI

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

APPENDIX VII TO PART 266

HEALTH-BASED LIMITS FOR EXCLUSION OF WASTE-DERIVED RESIDUES

Metals--TCLP Extract Concentration Limits (56 FR 7234) Appendix VII

Nonmetals--Residue Concentration Limits (see 56 FR 7234) Appendix VII

APPENDIX VIII TO PART 266

POTENTIAL PICs FOR DETERMINATION OF EXCLUSION OF WASTE-DERIVED RESIDUES

PICs Found in Stack Effluents (see 56 FR 7235) Appendix VIII

APPENDIX IX TO PART 266

METHODS MANUAL FOR COMPLIANCE WITH BIF REGULATIONS

14 This appendix will be published in the Federal Register in the near future Appendix IX

APPENDIX X TO PART 266

GUIDELINE ON AIR QUALITY MODELS (Revised) (1986)

14 This appendix will be published in the Federal Register in the near future Appendix X

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

PART 270 - EPA ADMINISTERED PERMIT PROGRAMS: THE HAZARDOUS WASTE PERMIT PROGRAM

SUBPART B - PERMIT APPLICATION

15 SPECIFIC PART B INFORMATION REQUIREMENTS FOR BOILERS AND INDUSTRIAL FURNACES BURNING HAZARDOUS WASTE

owners and operators subject to 266.104-266.107 must conduct a trial burn and must submit a trial burn plan or results in accordance with 270.66	270.22(a)(1)
waiver of trial burn to demonstrate conformance with a particular emission standard under 266.104-266.107 and 270.22(a)(2)-(a)(5)	270.22(a)(1)(i)
data in lieu of a trial burn as 270.22(a)(6) specifies	270.22(a)(1)(ii)
boiler owners and operators seeking to be permitted under 266.104(a)(4) and 266.110, must submit documentation showing boiler compliance with special operating requirements at 266.110; trial burn waived	270.22(a)(2)(i)

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		270.22(a)(2)(ii)			
information that must be submitted for boilers and industrial furnaces seeking to be permitted under the low risk waste provisions of 266.104(a)(5) and 266.109(a) without a trial burn		270.22(a)(2)(ii)(A)			
		270.22(a)(2)(ii)(B)			
		270.22(a)(2)(ii)(C)			
		270.22(a)(2)(ii)(D)			
		270.22(a)(2)(ii)(E)			
		270.22(a)(3)			
		270.22(a)(3)(i)			
		270.22(a)(3)(ii)			
		270.22(a)(3)(iii)			
information that must be submitted when seeking to be permitted under Tier I metals feed rate screening limits at 266.106(b)&(e) without a trial burn		270.22(a)(3)(iv)			
		270.22(a)(3)(v)			
		270.22(a)(3)(vi)			
		270.22(a)(3)(vii)			
when seeking to be permitted under the low risk waste provisions of 266.109(b) which waives the particulate standard, submit documentation supporting 270.22(a)(2)(ii) and (a)(3) conformance		270.22(a)(4)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		270.22(a)(5)			
		270.22(a)(5)(i)			
		270.22(a)(5)(ii)			
information to be submitted when seeking to be permitted under Tier I feed rate screening limits for total chloride and chlorine under 266.107(b)(1) and (e) provisions without a trial burn		270.22(a)(5)(iii)			
		270.22(a)(5)(iv)			
		270.22(a)(5)(v)			
		270.22(a)(5)(vi)			
owner or operator may seek exemption from trial burn requirements demonstrating 266.104-266.107 conformance, by providing information from previous compliance testing of the device or compliance testing or trial burns of similar boilers or industrial furnaces; burning similar wastes under similar conditions 270.66 design and operation information required; conditions under which Director shall approve a permit application in lieu of a trial burn; additional information to be submitted		270.22(a)(5)(vii)			
		270.22(a)(6)			

16

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		270.22(a)(6)(i)			
		270.22(a)(6)(i)(A)			
		270.22(a)(6)(i)(B)			
for a waiver from any trial burn:		270.22(a)(6)(i)(C)			
for a waiver of the DRE trial burn, basis for selection of POHCs used in other burns which demonstrate 266.104(a) compliance; analysis should specify 261, Appendix VIII constituents in hazardous waste for which a permit is sought and any differences from POHCs for which data are provided		270.22(a)(6)(ii)			
		270.22(b)			
		270.22(b)(1)			
		270.22(b)(2)			
		270.22(b)(3)			
		270.22(b)(4)			
minimum information to be submitted for with organic matter in raw materials requesting an alternative HC limit under 266.104(f)		270.22(b)(4)(i)			industrial furnaces
		270.22(b)(4)(ii)			
		270.22(b)(5)			
		270.22(b)(6)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
when seeking to be permitted under 266.106(f) alternative metals implementation approach, submit documentation that ensures 266.106(c) or (d) compliance and how approach can be implemented and monitored; provide other information as Director finds necessary	270.22(c)				
describe automatic waste feed cutoff system, including any pre-alarm systems	270.22(d)				
use of direct transfer operations requires submittal of information supporting 266.111 conformance	270.22(e)				
demonstration of 266.112 conformance if claim is made that residues are excluded from regulation	270.22(f)				

SUBPART D - CHANGES TO PERMITS

PERMIT MODIFICATION AT THE REQUEST OF THE PERMITTEE

paragraph heading is changed to "Newly regulated wastes and units"	270.42(g)				
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US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
add wording at end of paragraph regarding the continued management of hazardous waste in units newly regulated as hazardous waste management units	270.42(g)(1)				
insert "The unit" before "was in existence"; add "or newly regulated waste management unit" after "characterized waste"; add "or regulating the unit" at end of paragraph	270.42(g)(1)(i)				
insert "The permittee" before "submits"; insert "or unit" after "waste"	270.42(g)(1)(ii)				
insert "The permittee" before "is"; insert "applicable" before "standards"; change "Part 265" to "Parts 265 and 266 of this chapter"	270.42(g)(1)(iii)				
insert "the permittee" before "also"; remove "permit" from before "modification"; change "180 days after" to "180 days of"; add "or subjecting the unit to RCRA Subtitle C management standards" to end of paragraph	270.42(g)(1)(iv)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
17 insert "the permittee" before "certifies"; insert "each" before "such unit"; change "Part 265" to "requirements of Part 265 of this chapter for"; add ", or regulating the unit as a hazardous waste management unit" after "hazardous"; change "clarify" to "certify"; insert "all" before "these requirements"; change "shall lose" to "will lose"		270.42(g)(1)(v)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
change heading of L. to read "Incinerators, Boilers, and Industrial Furnaces"; in L.1.&L.2. replace "a waste feed rate limit, or an organic feed rate limit" with "a feedstream feed rate limit, a chlorine/chloride feed rate limit, a metal feed rate limit, or an ash feed rate limit"; in L.3. replace "HCL" with "HCL/Cl ₂ metals,"; in L.3.&L.4. insert ", boiler, or industrial furnace" after "incinerator"; in L.5.a. insert "or maximum" before "combustion gas temperature" and add "flue gas carbon monoxide and hydrocarbon concentration, maximum temperature at the inlet to the particulate matter emission control system, or operating parameters for the air pollution control system" after "chamber"; change L.6. heading to "Burning different wastes:"; in L.6.a. change "incineration" to "burning"; in L.6.a.&b. change all "to incinerate" to "to burn"; in 7.b. change "waste incineration" to "waste burning"; insert "nonhazardous waste" in L.8. before "fuel"		270.42/Appendix I			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

SUBPART F - SPECIAL FORMS OF PERMITS

PERMITS FOR BOILERS AND INDUSTRIAL FURNACES BURNING HAZARDOUS WASTE

new boilers and industrial furnaces subject to 270.66(b)-(f); those under interim status standards of 266.103 subject to 270.66(g)	270.66(a)			
permit for new boiler or industrial furnace shall specify appropriate conditions for the following operating periods:	270.66(b)			
pretrial burn period described; Director must establish in Pretrial Burn Period of permit conditions, allowable hazardous waste feed rates and operating conditions; extension of period for up to 720 additional hours; permit may be modified to reflect extension as per 270.42	270.66(b)(1)			
submittal of statement with Part B that suggests operating conditions for 266.104-266.107 compliance during period, including restrictions on 266.102(e) operating requirements	270.66(b)(1)(i)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
review of Part B materials and specification by Director of requirements sufficient to meet 266.104-266.107 performance standards based on engineering judgment	270.66(b)(1)(ii)				
for duration of trial burn, Director establishes conditions in permit to determine feasibility of compliance with 266.104-266.107 standards and to determine adequate 266.102(e) operating conditions; applicants must propose a trial burn plan as per 270.66(c) and submit with Part B	270.66(b)(2)				
for defined minimum period immediately following trial burn, during which submission and review of trial burn results and modification of permit by Director occurs, Director establishes operating requirements most likely to ensure compliance with 266.104-266.107 standards	270.66(b)(3)(i)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
submittal of statement with Part B that identifies operating conditions for 266.104-266.107 compliance during period, including restrictions on 266.102(e) operating requirements	270.66(b)(3)(ii)				
review and specification by Director of requirements sufficient to meet 266.104-266.107 performance standards based on engineering judgment	270.66(b)(3)(iii)				
for final period of operation, Director develops operating requirements in conformance with 266.102(e) and 266.104-266.107 standards; Director shall make necessary modifications to permit as per 270.42 based on trial burn results to ensure compliance	270.66(b)(4)				
information the trial burn plan must include; Director may require supplemental information	270.66(c)				
	270.66(c)(1)				
	270.66(c)(1)(i)				
analysis of each feedstream, as fired	270.66(c)(1)(ii)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
		270.66(c)(2)			
		270.66(c)(2)(i)			
analysis of each hazardous waste, as fired		270.66(c)(2)(ii)			
		270.66(c)(2)(iii)			
		270.66(c)(3)			
		270.66(c)(3)(i)			
		270.66(c)(3)(ii)			
		270.66(c)(3)(iii)			
		270.66(c)(3)(iv)			
		270.66(c)(3)(v)			
		270.66(c)(3)(vi)			
		270.66(c)(3)(vii)			
detailed engineering description of boiler or industrial furnace		270.66(c)(3)(viii)			
detailed description of sampling and monitoring procedures		270.66(c)(4)			
detailed test schedule for each hazardous waste for which the trial burn is planned		270.66(c)(5)			
detailed test protocol		270.66(c)(6)			
description of, and planned operating conditions for, any emission control equipment to be used		270.66(c)(7)			

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
procedures for rapid stopping of hazardous waste feed and emissions control if an equipment malfunction	270.66(c)(8)				
other information Director finds necessary	270.66(c)(9)				
trial burn conducted to demonstrate conformance with 266.104-266.107 standards under an approved trial burn plan	270.66(d)(1)				
	270.66(d)(2)				
	270.66(d)(2)(i)				
	270.66(d)(2)(ii)				
findings under which the Director shall approve a trial burn plan	270.66(d)(2)(iii)				
submit to Director within 90 days of trial burn completion a certification that trial burn was carried out in accordance with approved plan and results of all 270.66(c) required determinations	270.66(d)(3)				
submit all data collected during any trial burn	270.66(d)(4)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
270.66(d) submissions must be certified by signature of person authorized to sign permit application or 270.11 report	270.66(d)(5)				
for DRE trial burn under 266.104(a), Director will specify trial POHCs; basis for specification	270.66(e)				
determinations to be made based on each trial burn:	270.66(f)				
quantitative analysis of specified materials in the feedstreams	270.66(f)(1)				
	270.66(f)(2)				
	270.66(f)(2)(i)				
determinations needed when a DRE trial burn is required under 266.104(a)	270.66(f)(2)(ii)				
	270.66(f)(2)(iii)				
quantitative analysis of stack gas and a computation showing conformance with the emission standard when a trial burn is required for chlorinated dioxins and furans under 266.104(e)	270.66(f)(3)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
quantitative analysis of stack gas and computations showing conformance with applicable emission standards when a trial burn is required for particulate matter, metals, or HCl/Cl ₂ under 266.105, 266.106(c) or (d), or 266.107(b)(2) or (c)	270.66(f)(4)				
quantitative analysis of scrubber water, ash residues, other residues and products to estimate fate of trial POHCs, metals, and chlorine/chloride when a trial burn is required for DRE, metals or HCl/Cl ₂ under 266.104(a), 266.106(c) or (d), or 266.107(b)(2) or (c)	270.66(f)(5)				
identification of sources of fugitive emissions and their means of control	270.66(f)(6)				
continuous measurement of CO, oxygen, and HC in stack gas	270.66(f)(7)				
such other information as Director specifies	270.66(f)(8)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE
to determine feasibility of compliance with 266.104-266.107 performance standards and adequate operating conditions under 266.103, applicants of existing devices operated under interim status must either prepare and submit a trial burn plan and perform a trial burn or submit 270.22(a)(6) information; submit trial burn results with Part B application if plan approved before Part B submission; date for submission; requirements if submitting trial burn plan with Part B application	270.66(g)				

SUBPART G - INTERIM STATUS

CHANGES DURING INTERIM STATUS

add new paragraph regarding the addition of newly regulated units if a revised Part A permit application is submitted on or before the date the unit becomes subject to the new requirements	270.72(a)(6)				
add new paragraph regarding the addition of newly regulated units under 270.72(a)(6)	270.72(b)(7)				

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE

TERMINATION OF INTERIM STATUS

18 insert "which [h]as
achieved interim status
prior to November 8,
1984, interim status
terminates" before "on
November 8, 1989" 270.73(f)

18 insert "which [h]as
achieved interim status
prior to November 8,
1984, interim status
terminates" before "on
November 8, 1992" 270.73(g)

Note that the technical corrections addressed by the August 27, 1991 (56 FR 42504; Revision Checklist 96) notice reverse the revisions made by this checklist. The August 27, 1991 language is the same as the July 1990 CFR language. Thus, States need not adopt these revisions as they would need to be changed back to the original CFR language when Revision Checklist 96 is applied for.

2 Note that this paragraph is designated as "266.102(d)(4)(D)" in the Federal Register (56 FR 7210). This is a typographical error; the correct designation is "266.102(d)(4)(iv)." See technical correction at 56 FR 32688 (July 17, 1991; Revision Checklist 94).

3 Note that in the February 21, 1991 rule addressed by this checklist, the subparagraph designation was not italicized. This is a typographical error. This checklist corrects the error by italicizing the subparagraph designation. The August 27, 1991 (56 FR 42504; Revision Checklist 96) technical correction fixes this error.

4 Note that the August 27, 1991 Federal Register which addressed the technical correction for this citation has a typographical error; the reference to "266.102(e)(4)(iii)(c)(1) and (2)" should be "266.102(e)(4)(iii)(C)(1) and (2)."

5 Note that in the Federal Register for this rule, the subparagraph designation was not italicized. This is a typographical error. This checklist corrects the error by italicizing the subparagraph designation. The 56 FR 32688 (July 17, 1991; Revision Checklist 94) technical correction fixes this error.

6 Note that the internal reference in the Federal Register (56 FR 7213) to "(c)(7)(ii)" is incorrect. The correct reference should be "(c)(5)" and is reflected in this checklist. See the technical correction at 56 FR 42512 (August 27, 1991; Revision Checklist 96).

7 Note that the internal reference in the Federal Register (56 FR 7214) is to "paragraph (b)(ii)(A)." This is a typographical error; the correct reference is to "paragraph (b)(2)(ii)(A)." See the technical correction at 56 FR 32689 (July 17, 1991; Revision Checklist 94).

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV-ALENT	MORE STRINGENT	BROADER IN SCOPE

- 8 Note that the Federal Register (56 FR 7215) for this rule has a typographical error. The words "and recorded" should be inserted after "monitored." See the technical correction at 56 FR 42512 (August 27, 1991; Revision Checklist 96).
- 9 Note that the internal reference in the Federal Register (56 FR 7218) is to "paragraph (1)." This is a typographical error; the correct reference is to "paragraph (l)." See the technical correction at 56 FR 32689 (July 17, 1991; Revision Checklist 94).
- 10 Note that the internal reference in the Federal Register (56 FR 7220) is to "paragraph (a)." This is a typographical error; the correct reference is to "paragraph (a)(1)." See the technical correction at 56 FR 32689 (July 17, 1991; Revision Checklist 94). Also, "tetra-" should be "tetra-."
- 11 In the Federal Register for this rule, the designation for this subparagraph is 266.104(g)2. This is a typographical error; the correct designation is 266.104(g)(2). This checklist reflects the correct designation. See the technical correction at 56 FR 32689 (July 17, 1991).
- 12 In the Federal Register for this rule, the designation for these subparagraphs is 266.107(d)(i) and 266.107(d)(ii) (see 56 FR 7225). This is a typographical error. The subparagraphs should be designated 266.107(d)(1) and 266.107(d)(2). This checklist reflects the correct designations. See technical corrections at 56 FR 32690 (July 17, 1991).
- 13 In the Federal Register for this rule, the section designation for regulation of residues is 266.122 (see 56 FR 7227). This is a typographical error and the section should be designated 266.112. This checklist reflects the correct section number.
- 14 See the July 17, 1991 (56 FR 32688; Revision Checklist 94) notice. Appendices IX and X are found on pp. 56 FR 32692 and 56 FR 32796, respectively.
- 15 Note that this is the same section of code which contained the specific Part B information requirements for the Wood Preserving listing (55 FR 50450). Thus, the Part B boilers/industrial furnace requirements were added so that the Part B information requirements for drip pads were inadvertently removed by this present final rule. On July 1, 1991 (56 FR 30192, Revision Checklist 92) a technical correction was published moving the wood preserving requirements to 270.26.
- 16 Note that 270.22(a)(5) has a typographical error. Subparagraph "(iv)" is incorrectly numbered as "(vi)." The correct number has been used in this checklist.
- 17 The paragraph following 270.42(g)(1)(v) in Federal code, i.e., 270.42(g)(2), is included in the Federal Register for this rule (56 FR 7237). However, no changes were made to the paragraph by this rule, so it has not been included in this revision checklist.
- 18 Note that the Federal Register (56 FR 7239) for this rule has a typographical error. The word "as" after "which" should be "has." This checklist corrects that error. See technical correction at 56 FR

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in Boilers and Industrial Furnaces (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE

32692 (July 17, 1991).