

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 85

Burning of Hazardous Waste in
Boilers and Industrial Furnaces

56 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. Thus, States applying for Revision Checklist 85 are urged to adopt the Revision Checklist 94 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 Checklist 94 provisions as soon as possible.

2) 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.

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)	RCMR-7 PART I § 101 & § 102	X		
"carbon regeneration unit"	260.10	RCMR-7 ; PART I § 101 & § 102	X		
use "incinerator"	260.10(1)&(2)	RCMR-7 ; PART I § 101 & § 102	X		
place "controlled devices" with "thermal treatment" in introductory text of the definition for "industrial furnace"	260.10	RCMR-7 PART I § 101 & § 102	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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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)	HWMR-7 PART I § 101 & § 102	X		
"infrared incinerator"	260.10	HWMR-7 ; PART I § 101 & § 102	X		
"plasma arc incinerator"	260.10	HWMR-7 ; PART I § 101 & § 102	X		
"sludge dryer"	260.10	HWMR-7 ; PART I § 101 & § 102	X		
REFERENCES		HWMR-7 ; PART I § 101 & § 102	X		
add to the first listing "U.S. EPA, Screening Procedures for Estimating the Air Quality Impact of Stationary Sources..."	260.11(a)	HWMR-7 PART I § 101 & § 102	X		

PART 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SUBPART A - GENERAL

1 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)	HWMR-7 PART II § 201	X		
redesignate old 261.2(d)(2) as 261.2(d)(3)	261.2(d)(3)	HWMR-7 ; PART II § 201	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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EXCLUSIONS

† add exclusion for coke and coal tar when used as a fuel that contains or is produced from K087; production process in a coke oven also excluded from regulation	261.4(a)(10)	HWMR-7 PART II § 201	X		
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)	HWMR-7 PART II § 201	X		
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)	HWMR-7 PART II § 201	X		
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)	HWMR-7 PART II § 201	X		

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)	HWMR-7 PART II § 201	X		
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redesignate 261.6(a)(3)(ix) as 261.6(a)(3)(viii)	261.6(a)(3)(viii)	HWMR-7 PART II § 201	X		

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)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
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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)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

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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)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
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)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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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)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

CLOSURE: TIME ALLOWED FOR CLOSURE

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)	HWMR-7 PART VI § 601 & 602 (A)(B)	X	-	
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**RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV. ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

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	265.340(a)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
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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	HWMR-7 ; PART VII § 701	X		
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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	266.100(a)	HWMR-7 PART VII § 701	X		
hazardous wastes and facilities not subject to regulation under Subpart H:	266.100(b)	HWMR-7 PART VII § 701	X		
used oil burned for energy recovery that is hazardous solely because it exhibits a characteristic; regulated under 266, Subpart E	266.100(b)(1)	HWMR-7 PART VII § 701	X		
gas recovered from landfills and burned for energy recovery	266.100(b)(2)	HWMR-7 ; PART VII § 701	X		
exempt hazardous wastes under 261.4 and 261.6(a)(3)(v)-(viii); CESQG hazardous wastes under 261.5	266.100(b)(3)	HWMR-7 PART VII § 701	X		
coke ovens burning only K087	266.100(b)(4)	HWMR-7 ; PART VII § 701	X		

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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)	HWMR-7 PART VII § 701	X		
requirements for exemption from 266.102 through 266.111	266.100(c)(1)	HWMR-7 PART VII § 701	X		
one-time written notice indicating:	266.100(c)(1)(i)	HWMR-7 ; PART VII § 701	X		
owner or operator claims 266.100(c) exemption	266.100(c)(1)(i)(A)	HWMR-7 ; PART VII § 701	X		
metal recovery as per 266.100(c)(2) provisions	266.100(c)(1)(i)(B)	HWMR-7 ; PART VII § 701	X		
recoverable levels of metals	266.100(c)(1)(i)(C)	HWMR-7 ; PART VII § 701	X		
compliance with 266.100 sampling and analysis and record-keeping requirements	266.100(c)(1)(i)(D)	HWMR-7 PART VII § 701	X		
sample and analyze hazardous waste and other feedstocks as necessary using specified procedures	266.100(c)(1)(ii)	HWMR-7 PART VII § 701	X		
maintain specified records at facility for at least three years	266.100(c)(1)(iii)	HWMR-7 PART VII § 701	X		
criteria under which a hazardous waste is not processed solely for metal recovery	266.100(c)(2)	HWMR-7 PART VII § 701	X		
total concentration of 261, Appendix VIII organic compounds exceeds 500 ppm by weight and are considered burned for destruction	266.100(c)(2)(i)	HWMR-7 PART VII § 701	X		

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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heating value of 5,000 Btu/lb or more and considered burned as fuel	266.100(c)(2)(ii)	HWMR-7 PART VII § 701	X		
266.111 direct transfer operation standards apply only to facilities subject to 266.102 or 266.103 standards	266.100(d)	HWMR-7 PART VII § 701	X		
266.112 residue management standards apply to any boiler or industrial furnace burning hazardous waste	266.100(e)	HWMR-7 PART VII § 701	X		

MANAGEMENT PRIOR TO BURNING

generators of hazar- dous waste that is burned in a boiler or industrial furnace subject to Part 262	266.101(a)	HWMR-7 PART VII § 701	X		
transporters of hazar- dous waste that is burned in a boiler or industrial furnace subject to Part 263	266.101(b)	HWMR-7 PART VII § 701	X		
owner and operators of facilities that store hazardous waste burned in a boiler or industrial furnace sub- ject to 264 and 265, Subparts A through L, and 270, except as provided by 266.101(c)(2); stan- dards applicable to storage by burners and intermediary facilities	266.101(c)(1)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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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)	HWMR-7 PART VII § 701	X		

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)	HWMR-7 PART VII § 701	X		
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applicable 264 provisions:	266.102(a)(2)	HWMR-7 PART VII § 701	X		
	266.102(a)(2)(i)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(ii)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(iii)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(iv)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(v)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(vi)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(vii)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(viii)	HWMR-7 ; PART VII § 701	X		
	266.102(a)(2)(ix)	HWMR-7 ; PART VII § 701	X		
analysis to quantify concentration of any 261, Appendix VIII constituent at levels detectable by specified analytical procedures; identification; explanation of consti- tuents excluded from analysis; analysis pro- vides 270.22 and 270.66 information to prescribe permit con- ditions; 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)	HWMR-7 PART VII § 701	X		

RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
sampling and analysis throughout normal operation to ensure permit-specified physical and chemical composition limits are met	266.102(b)(2)	HWMR-7 PART VII § 701	X		
compliance with 266.104 through 266.107 emissions standards	266.102(c)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
266.103 interim status boilers and industrial furnaces permitted under 270.66(g) procedures	266.102(d)(3)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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2 for duration of permit, operating require-ments based on trial burn or 270.22 alternative data, sufficient to ensure 266.104-266.107 emissions compliance	266.102(d)(4)(iv)	HWMR-7 PART VII § 701	X		
operating require-ments specified in the permit apply at all times where hazardous waste is in unit	266.102(e)(1)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
feed rate of hazardous waste and other fuels as per 266.102(e)(6)	266.102(e)(2)(i)(A)	HWMR-7 PART VII § 701	X		
minimum and maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(2)(i)(B)	HWMR-7 PART VII § 701	X		

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
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appropriate controls of hazardous waste firing system	266.102(e)(2)(i)(C)	HWMR-7 PART VII § 701	X		
allowable variation in boiler and industrial furnace system design or operating procedures	266.102(e)(2)(i)(D)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
appropriate indicator of combustion gas velocity as per 266.102(e)(6), unless 270.66 documentation	266.102(e)(2)(i)(F)	HWMR-7 PART VII § 701	X		
other operating requirements to ensure 266.104(a) DRE compliance	266.102(e)(2)(i)(G)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
when complying with 266.104(b)(1) CO standard, permit limit is 100 ppmv	266.102(e)(2)(ii)(A)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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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)	HWMR-7 PART VII § 701	X		
no hazardous waste as feed during start-up and shut-down, unless device is operating within permit conditions: exception	266.102(e)(2)(iii)	HWMR-7 PART VII § 701	X		
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)(3)(i)	HWMR-7 PART VII § 701	X		
total ash feed rate from hazardous waste, other fuels, and industrial furnace feedstocks, as per 266.102(e)(6)	266.102(e)(3)(i)(A)	HWMR-7 PART VII § 701	X		
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(3)(i)(B)	HWMR-7 PART VII § 701	X		
operation and maintenance controls for hazardous waste firing system and air pollution control system	266.102(e)(3)(i)(C)	HWMR-7 PART VII § 701	X		
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(3)(i)(D)	HWMR-7 PART VII § 701	X		

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other operating requirements to ensure 266.111(b) particulate standard compliance	266.102(e)(3)(i)(E)	HWMR-7 PART VII § 701	X		
no permit conditions to ensure particulate standard compliance for 266.105(b) exempt facilities	266.102(e)(3)(ii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
total feed rate of hazardous waste as per 266.102(e)(6)	266.102(e)(4)(i)(B)	HWMR-7 PART VII § 701	X		
sampling and metals analysis program	266.102(e)(4)(i)(C)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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maximum emission rate for each metal based on average rate during trial burn	266.102(e)(4)(ii)(A)	HWMR-7 PART VII § 701	X		
feed rate of total and pumpable hazardous waste as per 266.102(e)(6)(i)	266.102(e)(4)(ii)(B)	HWMR-7 PART VII § 701	X		
3 feed rate of each metal in specified feedstreams, measured and specified as per 266.102(e)(6)	266.102(e)(4)(ii)(C)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(4)(ii)(C)(1)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(4)(ii)(C)(2)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(4)(ii)(C)(3)	HWMR-7 ; PART VII § 701	X		
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(4)(ii)(D)	HWMR-7 PART VII § 701	X		
maximum combustion gas temperature measured at location indicative of combustion chamber temperature as per 266.102(e)(6)	266.102(e)(4)(ii)(E)	HWMR-7 PART VII § 701	X		
maximum flue gas temperature at inlet to particulate matter air pollution control system as per 266.102(e)(6)	266.102(e)(4)(ii)(F)	HWMR-7 PART VII § 701	X		
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(4)(ii)(G)	HWMR-7 PART VII § 701	X		
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(4)(ii)(H)	HWMR-7 PART VII § 701	X		

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			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(4)(ii)(I)	HWMR-7 PART VII § 701	X		
other operating requirements to ensure 266.106(c) or (d) metals standards compliance	266.102(e)(4)(ii)(J)	HWMR-7 PART VII § 701	X		
operating requirements the permit will specify to conform with 266.106(f) alternative implementation approach:	266.102(e)(4)(iii)	HWMR-7 PART VII § 701	X		
maximum emission rate for each metal based on average rate	266.102(e)(4)(iii)(A)	HWMR-7 PART VII § 701	X		
feed rate of total and pumpable hazardous waste as per 266.102(e)(6)(i)	266.102(e)(4)(iii)(B)	HWMR-7 PART VII § 701	X		
3 feed rate of each metal in specified feedstreams, measures and specified as per 266.102(e)(6)	266.102(e)(4)(iii)(C)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(4)(iii)(C)(1)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(4)(iii)(C)(2)	HWMR-7 ; PART VII § 701	X		
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(4)(iii)(D)	HWMR-7 PART VII § 701	X		
maximum combustion gas temperature measured at location indicative of combustion chamber temperature as per 266.102(e)(6)	266.102(e)(4)(iii)(E)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(4)(iii)(G)	HWMR-7 PART VII § 701	X		
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(4)(iii)(H)	HWMR-7 PART VII § 701	X		
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(4)(iii)(I)	HWMR-7 PART VII § 701	X		
other operating requirements to ensure 266.106(c) or (d) metals standards compliance	266.102(e)(4)(iii)(J)	HWMR-7 PART VII § 701	X		
operating requirements the permit will specify to ensure 266.107(b)(1) Tier I total chloride and chlorine feed rate screening limits conformance:	266.102(e)(5)(i)	HWMR-7 PART VII § 701	X		
feed rate of total chloride and chlorine in hazardous waste, other fuels, and industrial furnace feedstocks as per 266.102(e)(6)	266.102(e)(5)(i)(A)	HWMR-7 PART VII § 701	X		
feed rate of total hazardous waste as per 266.102(e)(6)	266.102(e)(5)(i)(B)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
sampling and analysis program for total chloride and chlorine	266.102(e)(5)(i)(C)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
maximum emission rate for HCl and Cl ₂ based on average rate	266.102(e)(5)(ii)(A)	HWMR-7 ; PART VII § 701	X		
feed rate of total hazardous waste as per 266.102(e)(6)	266.102(e)(5)(ii)(B)	HWMR-7 ; PART VII § 701	X		
total feed rate of chlorine and chloride in total feedstreams as per 266.102(e)(6)	266.102(e)(5)(ii)(C)	HWMR-7 ; PART VII § 701	X		
maximum device production rate when producing normal product as per 266.102(e)(6)	266.102(e)(5)(ii)(D)	HWMR-7 ; PART VII § 701	X		
operation and maintenance controls of hazardous waste firing system and any air pollution control system	266.102(e)(5)(ii)(E)	HWMR-7 PART VII § 701	X		
allowable variation in system design including air pollution control system or operating procedures	266.102(e)(5)(ii)(F)	HWMR-7 PART VII § 701	X		
other operating requirements to ensure 266.107(b)(2) or (c) HCl or Cl ₂ standards compliance	266.102(e)(5)(ii)(G)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
measured and re- corded on instan- taneous basis and permit limit based on time-weighted average	266.102(e)(6)(i)(A)	HWMR-7 PART VII § 701	X		
hourly rolling average basis as defined	266.102(e)(6)(i)(B)(1)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(6)(i)(B)(1)(i)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(6)(i)(B)(1)(ii)	HWMR-7 ; PART VII § 701	X		
4 permit limit based on average overall valid test runs of highest hourly rolling average value per run	266.102(e)(6)(i)(B)(2)	HWMR-7 PART VII § 701	X		
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; re- quirements for 2 to 24 hour average period:	266.102(e)(6)(ii)	HWMR-7 PART VII § 701	X		
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.102(e)(6)(ii)(A)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
4 specifications the continuous monitor shall meet	266.102(e)(6)(ii)(B)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(6)(ii)(B)(1)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(6)(ii)(B)(2)	HWMR-7 ; PART VII § 701	X		
feed rate permit limit based on specified average	266.102(e)(6)(ii)(C)	HWMR-7 ; PART VII § 701	X		
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)(iii)	HWMR-7 PART VII § 701	X		
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)(iv)(A)	HWMR-7 PART VII § 701	X		

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

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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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
requirements for controlling fugitive emissions	266.102(e)(7)(i)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(7)(i)(A)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(7)(i)(B)	HWMR-7 ; PART VII § 701	X		
	266.102(e)(7)(i)(C)	HWMR-7 ; PART VII § 701	X		
automatic waste feed cutoff required; Director may limit number of cutoffs per operating period; additional requirements include:	266.102(e)(7)(ii)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUI- VALENT	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)	HWMR-7 PART VII § 701	X		
exhaust gases ducted to air pollution control system while hazardous waste or residues remain in chamber	266.102(e)(7)(ii)(B)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
cease burning hazar- dous waste when changes in combustion properties, feed rates, or design or operating conditions deviate from permit limits	266.102(e)(7)(iii)	HWMR-7 PART VII § 701	X		
operator or operator, while burning hazar- dous waste, must monitor and record:	266.102(e)(8)(i)	HWMR-7 PART VII § 701	X		
specified feed rates and composition of specified materials	266.102(e)(8)(i)(A)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
CO, HC, and oxygen on a continuous basis as specified; monitors installed, operated and maintained as per 266, Appendix IX methods	266.102(e)(8)(i)(B)	HWMR-7 PART VII § 701	X		
sampling and analysis as requested to verify that requirements established in permit achieve 266.104-266.107 standards	266.102(e)(8)(i)(C)	HWMR-7 PART VII § 701	X		
monitors record data in permit limit units, unless permit allows otherwise	266.102(e)(8)(ii)	HWMR-7 PART VII § 701	X		
daily visual inspection of boiler or industrial furnace and associated equipment when they contain hazardous waste	266.102(e)(8)(iii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
monitoring and inspection data recorded and placed in 264.73 operating record	266.102(e)(8)(v)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
compliance with 266.111 if direct transfer of hazardous waste to boiler or industrial furnace without use of storage unit	266.102(e)(9)	HWMR-7 PART VII § 701	X		
all 266.102-required information and data in facility operating record for not less than three years	266.102(e)(10)	HWMR-7 PART VII § 701	X		
remove all hazardous waste and hazardous waste residues at closure	266.102(e)(11)	HWMR-7 PART VII § 701	X		

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 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)(i)	HWMR-7 PART VII § 701	X		
continuous on-site, physical construction program has begun	266.103(a)(1)(ii)(A)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 ; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
if boiler or industrial furnace at facility with permit or interim status, then compliance with 270.42 permit modification or 270.72 interim status changes	266.103(a)(1)(iii)	HWMR-7 PART VII § 701	X		
	266.103(a)(2)	HWMR-7 PART VII § 701	X		
	266.103(a)(3)	HWMR-7 PART VII § 701	X		
266.103 requirements not applicable to hazardous waste and facilities exempt under 266.100(b) or 266.108 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)(4)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(i)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(ii)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(iii)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(iv)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(v)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(vi)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(vii)	HWMR-7 ; PART VII § 701	X		
	266.103(a)(4)(viii)	HWMR-7 ; PART VII § 701	X		
interim status owners and operators subject to specified 265 provisions:					

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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 where fuels are normally fired:	266.103(a)(5)	HWMR-7 PART VII § 701	X		
fed at location where temperatures are at least 1800° F	266.103(a)(5)(i)(A)	HWMR-7 ; PART VII § 701	X		
determination and documentation in facility record of adequate oxygen	266.103(a)(5)(i)(B)	HWMR-7 ; PART VII § 701	X		
for cement kiln systems, hazardous waste fed into kiln	266.103(a)(5)(i)(C)	HWMR-7 ; PART VII § 701	X		
applicability of 266.104(c) or 266.104(c)(7)(ii) hydrocarbon controls	266.103(a)(5)(i)(D)	HWMR-7 ; PART VII § 701	X		
criteria for burning hazardous waste for a purpose other than solely as an ingredient:	266.103(a)(5)(ii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
266.111 compliance if hazardous waste directly transferred from transport vehicle to boiler or industrial furnace without storage unit use	266.103(a)(7)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
information to be submitted with certification of precompliance to support determination and compliance with operating parameter limits	266.103(b)(2)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
general facility information	266.103(b)(2)(i)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(i)(A)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(i)(B)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(i)(C)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(i)(D)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(i)(E)	HWMR-7 ; PART VII § 701	X		
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 infor- mation to support determinations:	266.103(b)(2)(ii)	HWMR-7 PART VII § 701	X		
feed rate of specified materials in each feedstream	266.103(b)(2)(ii)(A)	HWMR-7 ; PART VII § 701	X		
5 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)	HWMR-7 PART VII § 701	X		

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

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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)	HWMR-7 PART VII § 701	X		
basis for best engineering judgment; 270.11(d) certification of determinations included in certification of precompliance	266.103(b)(2)(ii)(D)	HWMR-7 PART VII § 701	X		
for facilities complying with Tier I feed rate screening limits, the feed rate of specified materials in each feedstream	266.103(b)(2)(iii)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
estimated air pollution control system (APCS) removal efficiency for specified materials	266.103(b)(2)(iv)(A)	HWMR-7 PART VII § 701	X		
use best engineering judgment or 266. Appendix IX procedures	266.103(b)(2)(iv)(B)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
basis for best engineering judgment in conformance with 266.103(b)(2)(ii)(D)	266.103(b)(2)(iv)(C)	HWMR-7 PART VII § 701	X		
determination of allowable emissions rates for specified materials and information to support such determinations to include:	266.103(b)(2)(v)	HWMR-7 PART VII § 701	X		
for all facilities:	266.103(b)(2)(v)(A)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(1)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(2)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(3)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(4)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(5)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(6)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(7)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(A)(7)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(B)(1)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(B)(2)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(B)(3)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(2)(v)(B)(4)	HWMR-7 ; PART VII § 701	X		

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

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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)	HWMR-7 PART VII § 701	X		
for facilities complying with Tier I or adjusted Tier II 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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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, applicable particulate matter standard and precompliance limit on metal concentration	266.103(b)(2)(ix)	HWMR-7 PART VII § 701	X		
	266.103(b)(2)(ix)(A)	HWMR-7 ; PART VI § 701	X		
	266.103(b)(2)(ix)(B)	HWMR-7 ; PART VI § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)(3)	HWMR-7 PART VII § 701	X		
feed rate of total hazardous waste and pumpable hazardous waste	266.103(b)(3)(i)	HWMR-7 PART VII § 701	X		
feed rate of each metal in specified feedstreams	266.103(b)(3)(ii)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(3)(ii)(A)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(3)(ii)(B)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(3)(ii)(C)	HWMR-7 ; PART VII § 701	X		
total feed rate of chlorine and chloride in total feedstreams	266.103(b)(3)(iii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
maximum production rate when producing normal product	266.103(b)(3)(v)	HWMR-7 ; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
limits on 266.103(b)(3) parameters established and continuously monitoring under:	266.103(b)(5)(i)	HWMR-7 PART VII § 701	X		
instantaneous limits	266.103(b)(5)(i)(A)	HWMR-7 ; PART VII § 701	X		
4 hourly rolling average basis as defined	266.103(b)(5)(i)(B)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(5)(i)(B)(1)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(5)(i)(B)(2)	HWMR-7 ; PART VII § 701	X		
	266.103(b)(5)(i)(B)(2)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.103(b)(5)(ii)(A)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV. ALENT	MORE STRINGENT	BROADER IN SCOPE
4 specifications the continuous monitor shall meet:	266.103(b)(5)(ii)(B)	HWMR- 7 ; PART VII § 701	X		
	266.103(b)(5)(ii)(B)(1)	HWMR- 7 ; PART VII § 701	X		
	266.103(b)(5)(ii)(B)(2)	HWMR- 7 ; PART VII § 701	X		
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)(iii)	HWMR- 7 PART VII § 701	X		
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)(6)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
information to include in public notice	266.103(b)(6)(i)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(ii)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(iii)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(iv)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(v)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(vi)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(vii)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(viii)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(viii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(viii)(B)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(ix)	HWMR- 7; PART VII § 701	X		
	266.103(b)(6)(x)	HWMR- 7; PART VII § 701	X		
when monitoring systems for 266.103(c)(1)(v)-(xiii) operating parameters are installed and operating in con- formance with vendor or 266, Appendix IX specifications, con- tinuous monitoring required and records maintained in operating record	266.103(b)(7)	HWMR- 7; PART VII § 701	X		
submission of revised certification of pre- compliance under 266.103(b)(2)&(3) procedures	266.103(b)(8)	HWMR- 7; PART VII § 701	X		

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

DRAFT

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)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
language of signed statement that must be included with the certification of precompliance	266.103(b)(9)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
feed rate of total hazardous waste and pumpable hazardous waste	266.103(c)(1)(i)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
feed rate of each metal in specified feedstreams	266.103(c)(1)(ii)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ii)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ii)(C)	HWMR- 7; PART VII § 701	X		
total feed rate of chlorine and chloride in total feedstreams	266.103(c)(1)(iii)	HWMR- 7; PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
carbon monoxide con- centration and where required, hydrocarbon concentration in stack gas; CO and HC limits	266.103(c)(1)(v)	HWMR- 7 PART VII § 701	X		
maximum production rate when producing normal product	266.103(c)(1)(vi)	HWMR- 7 PART VII § 701	X		
maximum combustion chamber temperature with temperature measured where specified; exception	266.103(c)(1)(vii)	HWMR- 7 PART VII § 701	X		
maximum flue gas temperature entering a particulate matter control device; exception	266.103(c)(1)(viii)	HWMR- 7 PART VII § 701	X		
limits for systems using wet scrubbers, including wet ionizing scrubbers; exception:	266.103(c)(1)(ix)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ix)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ix)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(ix)(C)	HWMR- 7; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
systems using venturi scrubbers, the minimum differential gas pressure across the venturi; exception	266.103(c)(1)(x)	HWMR- 7 PART VII § 701	X		
limits for systems using dry scrubbers; exception: limits for systems using wet ionizing scrubbers or electrostatic precipitators; exception: systems using fabric filters, the minimum pressure drop; exception: at least 30 days prior to 266.103(c)(3) compliance testing, notify Director and submit required information:	266.103(c)(1)(xi)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xi)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xi)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xii)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xii)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(1)(xiii)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)	HWMR- 7; PART VII § 701	X		
general facility information	266.103(c)(2)(i)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(i)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(i)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(i)(C)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(i)(D)	HWMR- 7; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
specific information on each device to be tested	266.103(c)(2)(ii)	HWMR- 7 PART VII § 701	X		
	266.103(c)(2)(ii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(C)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(D)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(D)(1)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(D)(2)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(D)(3)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(E)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(ii)(F)	HWMR- 7; PART VII § 701	X		
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)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(iii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(2)(iii)(B)	HWMR- 7; PART VII § 701	X		
compliance testing under 266.103(b) and 266.103(c)(2) conditions	266.103(c)(3)(i)	HWMR- 7; PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
266. Appendix IX testing requirements in "Alternative Method for Implementing Metals Controls"	266.103(c)(3)(ii)(A)	HWMR- 7 PART VII § 701	X		
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; para- meters for which operating limits must be established under 266.103(c)(3)	266.103(c)(3)(ii)(B)	HWMR- 7 ; PART VII § 701	X		
	266.103(c)(3)(ii)(B)(1)	HWMR- 7 ; PART VII § 701	X		
	266.103(c)(3)(ii)(B)(2)	HWMR- 7 ; PART VII § 701	X		
	266.103(c)(3)(ii)(B)(3)	HWMR- 7 ; PART VII § 701	X		
	266.103(c)(3)(ii)(B)(4)	HWMR- 7 ; PART VII § 701	X		
	266.103(c)(3)(ii)(B)(5)	HWMR- 7 ; PART VII § 701	X		
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)	HWMR- 7 ; PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
general facility and testing information	266.103(c)(4)(i)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(C)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(D)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(E)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(F)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(G)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(H)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(i)(I)	HWMR- 7; PART VII § 701	X		
specific information on each test	266.103(c)(4)(ii)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(A)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(1)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(2)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(3)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(4)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(5)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(6)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(7)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(8)	HWMR- 7; PART VII § 701	X		
	266.103(c)(4)(ii)(B)(9)	HWMR- 7; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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 determination of	266.103(c)(4)(iii)	HWMR-7; PART VII § 701	X		
operating limits based on all valid runs for 266.103(c)(1) parameters using one of two procedures:	266.103(c)(4)(iv)	HWMR- 7 PART VII § 701	X		
instantaneous limits	266.103(c)(4)(iv)(A)	HWMR-7; PART VII § 701	X		
hourly rolling average basis as defined	266.103(c)(4)(iv)(B)(1)	HWMR-7; PART VII § 701	X		
	266.103(c)(4)(iv)(B)(1)(i)	HWMR-7; PART VII § 701	X		
	266.103(c)(4)(iv)(B)(1)(ii)	HWMR-7; PART VII § 701	X		
	266.103(c)(4)(iv)(B)(2)	HWMR-7 PART VII § 701	X		
parameter operating limit based on compliance test data and specific average	266.103(c)(4)(iv)(B)(2)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
feed rate of each metal limited to ten times the allowable hourly rolling average basis feed rate	266.103(c)(4)(iv)(C)(1)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
specifications the continuous monitor shall meet	266.103(c)(4)(iv)(C)(2)	HWMR-7 PART VII § 701	X		
	266.103(c)(4)(iv)(C)(2)(i)	HWMR-7; PART VII § 701	X		
	266.103(c)(4)(iv)(C)(2)(ii)	HWMR-7; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
language of statement to accompany the certification of compliance	266.103(c)(4)(v)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
special operating requirements for industrial furnaces that recycle collected particulate matter from air pollution control system:	266.103(c)(6)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
operating requirements of 266.103(c)(3)(ii)(B) if complying with that paragraph	266.103(c)(6)(ii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
6 stop burning hazardous waste and begin 266.103(l) closure	266.103(c)(7)(i)(A)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
obtain case-by-case time extension under 266.103(c)(7)(ii)	266.103(c)(7)(i)(C)	HWMR- 7 PART VII § 701	X		
condition under which a case-by-case time extension may be requested for any 266.103(c) time limit	266.103(c)(7)(ii)	HWMR- 7 PART VII § 701	X		
in granting extension, Director may apply specified conditions	266.103(c)(7)(ii)(A)	HWMR- 7 PART VII § 701	X		
if time extension requested to obtain RCRA permit because 266.104(c) HC limit cannot be met:	266.103(c)(7)(ii)(B)	HWMR- 7 PART VII § 701	X		
what Director shall consider:	266.103(c)(7)(ii)(B)(1)	HWMR-7;PART VII § 701	X		
determine if complete Part B permit appli- cation that includes 270.22(b) information has been submitted	266.103(c)(7)(ii)(B)(1)(i)	HWMR- 7 PART VII § 701	X		
consider if good faith effort to certify compliance with all other emission con- trols has been made	266.103(c)(7)(ii)(B)(1)(ii)	HWMR- 7 PART VII § 701	X		
4 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)	HWMR- 7 PART VII § 701	X		
submit at any time a revised certification of compliance under specific procedures:	266.103(c)(8)	HWMR- 7 PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR- 7 PART VII § 701	X		
at least 30 days prior to first burning under revised conditions, notify Director and submit specific information:	266.103(c)(8)(ii)	HWMR- 7 PART VII § 701	X		
EPA facility ID number, facility name, contact person, telephone number and address	266.103(c)(8)(ii)(A)	HWMR- 7 PART VII § 701	X		
operating conditions owner/operator is seeking to revise and description of changes that prompted need to revise	266.103(c)(8)(ii)(B)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)(iii)(D)	HWMR- 7 PART VII § 701	X		
conduct compliance test under revised operating conditions and submitted protocol to determine 266.104-266.107 emissions standards compliance	266.103(c)(8)(iii)	HWMR- 7 PART VII § 701	X		
submitted revised certification of compliance under 266.103(c)(4)	266.103(c)(8)(iv)	HWMR- 7 PART VII § 701	X		
recertification of compliance within three years; if recertification under new operating conditions, 266.103(c)(8) compliance	266.103(d)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
no hazardous waste as feed during start-up and shut-down unless device is operating within certification conditions	266.103(f)	HWMR- 7 PART VII § 701	X		
during 266.103(c)(3) compliance test and upon certification of compliance, automatic waste feed cutoff required; additional requirements include:	266.103(g)	HWMR- 7 PART VII § 701	X		
maintenance of minimum combustion chamber temperature while hazardous waste or residues remain in chamber to minimize emissions or organic compounds	266.103(g)(1)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		
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)	HWMR- 7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
continued monitoring of operating param- eters with limits during cutoff; no restart of hazardous waste feed until parameters comply with certification of established compliance limits	266.103(g)(2)	HWMR- 7 PART VII § 701	X		
requirements for controlling fugitive emissions	266.103(h)	HWMR-7; PART VII § 701	X		
	266.103(h)(1)	HWMR-7; PART VII § 701	X		
	266.103(h)(2)	HWMR-7; PART VII § 701	X		
	266.103(h)(3)	HWMR-7 ; PART VII § 701	X		
cease burning hazar- dous waste when changes in combustion properties, feed rates, feed stocks/fuels or design or operating conditions deviate from permit limits	266.103(i)	HWMR-7 PART VII § 701	X		
owner or operator, while burning hazar- dous waste, must monitor and record:	266.103(j)(1)	HWMR-7 PART VII § 701	X		
specified feed rates and composition of specified materials to ensure conformance with certification	266.103(j)(1)(i)	HWMR-7 PART VII § 701	X		
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)(ii)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
sampling and analysis as requested by Director to verify compliance with 266.104-266.107 standards	266.103(j)(1)(iii)	HWMR-7 PART VII § 701	X		
daily visual inspection of boiler or industrial furnace and associated equipment when they contain hazardous waste	266.103(j)(2)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
monitoring and inspection data recorded and placed in operating log	266.103(j)(4)	HWMR-7 PART VII § 701	X		
all 266.103-required information and data kept in facility operating record for three years	266.103(k)	HWMR-7 PART VII § 701	X		
remove all hazardous waste and hazardous waste residues at closure and comply with 265.111-265.115	266.103(l)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
POHC compliance with DRE require- ments 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 con- sidering analyses sub- mitted with Part B; 261, Appendix VIII compounds unless demonstration of other compound is suitable indicator of DRE requirements	266.104(a)(2)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
owners and operators of boilers operating under 266.110 requirements are exempt from DRE trial burn	266.104(a)(4)	HWMR-7 PART VII § 701	X		
owners and operators of boilers or industrial furnaces in compliance with 266.109(a) are exempt from DRE trial burn	266.104(a)(5)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
continuous monitoring of CO and oxygen in conformance with 266, Appendix IX specifications	266.104(b)(2)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
HC limits established on hourly rolling average basis, reported as propane, continuously corrected to 7% oxygen, dry gas basis	266.104(c)(2)	HWMR-7 PART VII § 701	X		
HC continuously monitored under 266, Appendix IX specifications; CO continuously monitored under 266.104(b)(2)	266.104(c)(3)	HWMR-7 PART VII § 701	X		
alternative CO standard based on trial burn data (new facility) and compliance test (interim status facility); definition and implementation	266.104(c)(4)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
determine emission rates of certain tetra-octa congeners during trial burn or compliance test using 266, Appendix IX Method 23	266.104(e)(1)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
specified 2,3,7,8-TCDD ratio shall not exceed 1.0	266.104(e)(4)	HWMR-7 ; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
develop approach to monitor over time changes in facility operation that could reduce baseline HC level	266.104(f)(2)	HWMR-7 PART VII § 701	X		
conduct emissions testing during trial burn to:	266.104(f)(3)	HWMR-7 PART VII § 701	X		
determine baseline HC (and CO) level	266.104(f)(3)(i)	HWMR-7 ; PART VII § 701	X		
demonstrate that HC (and CO) levels do not exceed baseline level when hazardous waste is burned	266.104(f)(3)(ii)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
	266.104(f)(3)(iii)(A)	HWMR-7 ; PART VII § 701	X		
	266.104(f)(3)(iii)(B)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 ; PART VII § 701	X		
	266.104(f)(3)(iv)(A)	HWMR-7 ; PART VII § 701	X		
	266.104(f)(3)(iv)(B)	HWMR-7 ; PART VII § 701	X		
	266.104(f)(3)(iv)(C)	HWMR-7 ; PART VII § 701	X		
monitor and report all 266.104(f) hydrocarbon levels as 266.104(c)(1)&(2) specify	266.104(f)(4)	HWMR-7 PART VII § 701	X		
cement kilns may comply with CO and HC limits under 266.104(b)-(d) by monitoring in the by-pass duct provided:	266.104(g)	HWMR-7 PART VII § 701	X		
fire hazardous waste only into the kiln	266.104(g)(1)	HWMR-7 ; PART VII § 701	X		
8 by-pass duct diverts minimum of 10% of kiln off-gas into duct	266.104(g)(2)	HWMR-7 ; PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
simultaneous demon- stration of 266.104 compliance by emis- sions testing or during separate runs under identical operating conditions; data to demonstrate com- pliance with CO and HC limits or to establish alternative limits must be obtained during DRE testing, CDD/CDF testing and compre- hensive organic emissions testing	266.104(h)	HWMR- 7 PART VII § 701	X		
compliance with permit operating requirements regarded as compliance with 266.104; if such compliance is in- sufficient, modification or revocation and re- issuance of permit under 270.41	266.104(i)	HWMR- 7 PART VII § 701	X		

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)	HWMR- 7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
owner or operator meeting 266.109(b) requirements for low risk waste exemption is exempt from particulate matter standard	266.105(b)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUI- VALENT	MORE STRINGENT	BROADER IN SCOPE
what feed rate screening limits for antimony, barium, mercury, thallium, and silver are based on	266.106(b)(1)(i)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(1)(i)(A)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(1)(i)(B)	HWMR-7 ; PART VII § 701	X		
what feed rate screening limit for lead is based on	266.106(b)(1)(ii)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(1)(ii)(A)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(1)(ii)(B)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(1)(ii)(C)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
what feed rate screening limits for carcinogenic metals are based on	266.106(b)(2)(ii)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(2)(ii)(A)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(2)(ii)(B)	HWMR-7 ; PART VII § 701	X		
equation for terrain- adjusted effective stack height (TESH)	266.106(b)(3)(i)	HWMR-7 ; PART VII § 701	X		
stack height may not exceed 40 CFR 51.100(ii) good engineering practice	266.106(b)(3)(ii)	HWMR-7 PART VII § 701	X		
if TESH for a parti- cular 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)(3)(iii)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
screening limits function of non-complex or com- plex terrain; criteria; use U.S. Geological Survey 7.5-minute topographic maps	266.106(b)(4)	HWMR-7 PART VII § 701	X		
screening limits function of urban or rural land use; determination using 266, Appendices IX or X	266.106(b)(5)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
criteria under which Tier III standards apply instead of Tier I and Tier II screening limits	266.106(b)(7)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(7)(i)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(7)(ii)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(7)(iii)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(7)(iv)	HWMR-7 ; PART VII § 701	X		
	266.106(b)(7)(v)	HWMR-7 ; PART VII § 701	X		
monitor feed rate of metals in each feed- stream to ensure screening limits are not exceeded	266.106(b)(8)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV. ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
emission rates of antimony, barium, lead, mercury, thallium and silver shall not exceed 266, Appendix I screening limits	266.106(c)(1)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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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 emissions screening limits for any such stacks assuming all hazardous waste is fed into device with worst-case stack	266.106(c)(5)(i)	HWMR-7 PART VII § 701	X		
worst-case stack determined by 266.106(b)(6) procedures	266.106(c)(5)(ii)	HWMR-7 PART VII § 701	X		
for each metal, total emissions from those stacks shall not exceed worst-case stack screening limit	266.106(c)(5)(iii)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
for noncarcinogenic metals, predicted maximum annual average off-site ground level concentration shall not exceed the RAC	266.106(d)(4)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
alternative implemen- tation approaches approved by Director on a case-by-case basis for Tier II or III metals emission limits	266.106(f)(1)	HWMR-7 PART VII § 701	X		
determination of 266.106(d) emissions limits for each noncarcinogenic and carcinogenic metal use 266. Appendix IX Multiple Metals Train to conduct emissions testing	266.106(f)(2)	HWMR-7 ; PART VII § 701	X		
	266.106(f)(2)(i)	HWMR-7 ; PART VII § 701	X		
	266.106(f)(2)(ii)	HWMR-7 ; PART VII § 701	X		
	266.106(f)(2)(ii)(A)	HWMR-7 ; PART VII § 701	X		
	266.106(f)(2)(ii)(B)	HWMR-7 ; PART VII § 701	X		
	266.106(g)(1)	HWMR-7 ; PART VII § 701	X		
chromium emissions assumed to be hexa- valent chromium unless owner/operator determines otherwise	266.106(g)(2)	HWMR-7 PART VII § 701	X		
dispersion modeling conducted according to specified methods to predict maximum annual average off- site ground level con- centration; on-site concentrations when person resides on-site	266.106(h)	HWMR-7 PART VII § 701	X		
compliance with 266.102 permit oper- ating requirements regarded as 266.106 compliance unless evidence indicates otherwise; modification or revocation and re-issuance of permit under 270.41	266.106(i)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
STANDARDS TO CONTROL HYDROGEN CHLORIDE (HCl) AND CHLORINE GAS (Cl ₂) EMISSIONS					
Compliance with HCl and Cl ₂ controls under 266.107(b), (c), or (d)	266.107(a)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
266.106(b) definitions and limitations for specified terms also apply to 266.107(b) screening limits	266.107(b)(3)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
worst-case stack determined by 266.106(b)(6) procedures	266.107(b)(4)(i)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
266. Appendix IV lists RACs for HCl and Cl ₂	266.107(c)(2)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
9 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)	HWMR-7 PART VII § 701	X		
	266.107(d)(1)	HWMR-7 ; PART VII § 701	X		
	266.107(d)(2)	HWMR-7 ; PART VII § 701	X		
adjusted Tier I feed rate screening limits to account for site-specific dispersion modeling; how to determine these adjusted rates	266.107(e)	HWMR-7 PART VII § 701	X		
emissions testing for HCl and Cl ₂ conducted using 266. Appendix IX procedures	266.107(f)	HWMR-7 PART VII § 701	X		
dispersion modeling conducted according to 266.106(h) provisions	266.107(g)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
maximum hazardous waste firing rate does not exceed 1% of total fuel requirements on a volume basis	266.108(a)(2)	HWMR-7 PART VII § 701	X		
minimum heating value of 5,000 Btu/lb	266.108(a)(3)	HWMR-7 ; PART VII § 701	X		
does not contain F020-F023, F026 or F027	266.108(a)(4)	HWMR-7 ; PART VII § 701	X		
if mixed with non-hazardous waste, compliance with 266.108(a) quantity before mixing	266.108(b)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
one-time signed. written notification requirements for small quantity burner exemption	266.108(d)	HWMR-7 ; PART VII § 701	X		
	266.108(d)(1)	HWMR-7 ; PART VII § 701	X		
	266.108(d)(2)	HWMR-7 ; PART VII § 701	X		
	266.108(d)(3)	HWMR-7 ; PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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 ad- verse health effects as per 266.109(a)(2) procedures	266.109(a)	HWMR-7 PART VII § 701	X		
operating requirements for device	266.109(a)(1)	HWMR-7 ; PART VII § 701	X		
	266.109(a)(1)(i)	HWMR-7 ; PART VII § 701	X		
	266.109(a)(1)(ii)	HWMR-7 ; PART VII § 701	X		
	266.109(a)(1)(iii)	HWMR-7 ; PART VII § 701	X		
	266.109(a)(1)(iv)	HWMR-7 ; PART VII § 701	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
procedures to demon- strate that hazardous waste burning will not pose unacceptable adverse public health effects	266.109(a)(2)	HWMR- 7 PART VII § 701	X		
	266.109(a)(2)(i)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(ii)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iii)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iii)(A)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iii)(B)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iv)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iv)(A)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iv)(B)	HWMR- 7 ; PART VII § 701	X		
	266.109(a)(2)(iv)(C)	HWMR- 7 ; PART VII § 701	X		
	266.109(b)	HWMR- 7 ; PART VII § 701	X		
conditions under which the 266.105 particulate matter standard is waived	266.109(b)(1)	HWMR- 7 ; PART VII § 701	X		
	266.109(b)(2)	HWMR- 7 ; PART VII § 701	X		

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 stan- dard, and trial burn to demonstrate DRE is waived; when burning hazardous waste:	266.110	HWMR- 7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
"primary fuel" defined; minimum of 50% primary fuel firing rate, determined on total heat or volume input basis	266.110(a)	HWMR-7 PART VII § 701	X		
boiler load defined and not less than 40%	266.110(b)	HWMR-7 ; PART VII § 701	X		
minimum as-fired heating value of 8,000 Btu/lb	266.110(c)	HWMR-7 ; PART VII § 701	X		
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(d)	HWMR-7 PART VII § 701	X		
boiler must be water- tube type that does not feed fuel using a stoker or stoker type mechanism	266.110(e)	HWMR-7 PART VII § 701	X		
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 atomiza- tion system	266.110(f)	HWMR-7 ; PART VII § 701	X		
	266.110(f)(1)	HWMR-7 ; PART VII § 701	X		
	266.110(f)(2)	HWMR-7 ; PART VII § 701	X		
	266.110(f)(3)	HWMR-7 ; PART VII § 701	X		
	266.110(f)(4)	HWMR-7 ; PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART VII § 701	X		
for 266.111, terms have meanings given in 266.111(b)(1)	266.111(b)(1)intro	HWMR-7 ; PART VII § 701	X		
"direct transfer equipment"	266.111(b)(1)	HWMR-7 ; PART VII § 701	X		
"container"	266.111(b)(1)	HWMR-7 ; PART VII § 701	X		
"tank systems" means direct transfer equipment when Subparts I and J of Parts 264 and 265 are referenced	266.111(b)(2)	HWMR-7 ; PART VII § 701	X		
no direct transfer of pumpable hazardous waste from open-top container to boiler or industrial furnace	266.111(c)(1)	HWMR-7 PART VII § 701	X		
direct transfer equipment requirements	266.111(c)(2)	HWMR-7 ; PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV. ALENT	MORE STRINGENT	BROADER IN SCOPE
direct transfer of hazardous waste to boiler or industrial furnace conducted so that it does not result in any 266.111(c)(3)(i)-(iv) situation	266.111(c)(3)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(i)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(ii)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(iii)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(iv)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(v)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(3)(vi)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(4)	HWMR-7 PART VII § 701	X		
appropriate controls and practices to pre- vent spills and over- flows from direct transfer equipment or its secondary contain- ment system	266.111(c)(5)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(5)(i)	HWMR-7 ; PART VII § 701	X		
	266.111(c)(5)(ii)	HWMR-7 ; PART VII § 701	X		
requirements associated with area where containers are located	266.111(d)	HWMR-7 ; PART VII § 701	X		
	266.111(d)(1)	HWMR-7 ; PART VII § 701	X		
	266.111(d)(2)	HWMR-7 ; PART VII § 701	X		
	266.111(d)(3)	HWMR-7 ; PART VII § 701	X		
direct transfer equipment must meet following requirements:	266.111(e)	HWMR-7 ; PART VII § 701	X		
secondary containment requirements for new and existing equipment	266.111(e)(1)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(1)(i)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(1)(ii)	HWMR-7 ; PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUI- VALENT	MORE STRINGENT	BROADER IN SCOPE
for existing direct transfer equipment without secondary containment, determination whether leaking or unfit for use; assessment written and certified by qualified, registered professional engineer in accordance with 270.11(d) by August 21, 1992	266.111(e)(2)(i)	HWMR-7 PART VII § 701	X		
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)(iii)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(2)(ii)(A)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(2)(ii)(B)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(2)(ii)(C)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(2)(ii)(D)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(2)(ii)(E)	HWMR-7 ; PART VII § 701	X		
inspection requirements at least once each operating hour when transferring hazardous waste from container to boiler or industrial furnace	266.111(e)(2)(iii)	HWMR-7 PART VII § 701	X		
inspect cathodic protection systems to ensure 265.195(b) compliance	266.111(e)(3)(i)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(3)(i)(A)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(3)(i)(B)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(3)(i)(C)	HWMR-7 ; PART VII § 701	X		
	266.111(e)(3)(ii)	HWMR-7 ; PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
records of inspections maintained in operating record for at least 3 years	266.111(e)(3)(iii)	HWMR-7 PART VII § 701	X		
265.192 compliance for design and installation of new ancillary equipment	266.111(e)(4)	HWMR-7 PART VII § 701	X		
265.196 compliance for response to leaks or spills	266.111(e)(5)	HWMR-7 PART VII § 701	X		
265.197 closure compliance, except 265.197(c)(2)-(4)	266.111(e)(6)	HWMR-7 PART VII § 701	X		

10 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	HWMR-7 PART VII § 701	X		
criteria the device must meet:	266.112(a)	HWMR-7 ; PART VII § 701	X		
	266.112(a)(1)	HWMR-7 ; PART VII § 701	X		
	266.112(a)(2)	HWMR-7 ; PART VII § 701	X		
	266.112(a)(3)	HWMR-7 ; PART VII § 701	X		
demonstration by owner or operator that hazardous waste does not significantly affect residue by demonstrating conformance with either of two criteria:	266.112(b)	HWMR-7 PART VII § 701	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
comparison of waste-derived residue with normal residue for 261, Appendix VIII constituents; procedures to be used	266.112(b)(1)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		
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)	HWMR-7 PART VII § 701	X		

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

DRAFT

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 water derived residue may 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)	HWMR-7 PART VII § 701	X		
for metal constituents, in extract concentration obtained using 261.24 TCLP not to exceed 266, Appendix VII limits	266.112(b)(2)(ii)	HWMR-7 PART VII § 701	X		
records to document 266.112 compliance to be retained for 3 years; information to be recorded	266.112(c)	HWMR-7 ; PART VII § 701	X		
	266.112(c)(1)	HWMR-7 ; PART VII § 701	X		
	266.112(c)(2)	HWMR-7 ; PART VII § 701	X		
	266.112(c)(2)(i)	HWMR-7 ; PART VII § 701	X		
	266.112(c)(2)(ii)	HWMR-7 ; PART VII § 701	X		

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	HWMR-7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

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	HWMR-7 PART VII § 701	X		
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	HWMR-7 PART VII § 701	X		
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	HWMR-7 PART VII § 701	X		
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	HWMR-7 PART VII § 701	X		

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	HWMR-7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

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 Cl ₂ and HCl in Non-complex Terrain (see 56 FR 7231-7232)	Appendix III	HWMR-7 PART VII § 701	X		
Tier II Emissions Screening Limits for Cl ₂ and HCl in Complex Terrain (see 56 FR 7232)	Appendix III	HWMR-7 PART VII § 701	X		

APPENDIX IV PART 266

REFERENCE AIR CONCENTRATIONS

Constituents, CAS Nos. and RAC (see 56 FR 7232)	Appendix IV	HWMR-7 PART VII § 701	X		
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APPENDIX V TO PART 266

RISK SPECIFIC DOSES

Constituents, CAS Nos., Unit risk and RsD (see 56 FR 7232-7233)	Appendix V	HWMR-7 PART VII § 701	X		
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APPENDIX VI TO PART 266

STACK PLUME RISE

flow rates and exhaust temperatures (see 56 FR 7233-7234)	Appendix VI	HWMR-7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

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	HWMR-7 PART VII § 701	X		
Nonmetals--Residue Concentration Limits (see 56 FR 7234)	Appendix VII	HWMR-7 PART VII § 701	X		

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	HWMR-7 PART VII § 701	X		
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APPENDIX IX TO PART 266

METHODS MANUAL FOR COMPLIANCE WITH BIF REGULATIONS

11 This appendix will be published in the <u>Federal Register</u> in the near future	Appendix IX	HWMR-7 PART VII § 701	X		
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APPENDIX X TO PART 266

GUIDELINE ON AIR QUALITY MODELS (Revised) (1986)

11 This appendix will be published in the <u>Federal Register</u> in the near future	Appendix X	HWMR-7 PART VII § 701	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

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

12 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)	HWMR-7 PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
data in lieu of a trial burn as 270.22(a)(6) specifies	270.22(a)(1)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(2)(ii)(A)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(2)(ii)(B)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(2)(ii)(C)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(2)(ii)(D)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(2)(ii)(E)	HWMR-7 ; PART IX § 901 & § 902	X		
information that must be submitted when seeking to be permitted under Tier I metals feed rate screening limits at 266.106(b)&(e) with- out a trial burn	270.22(a)(3)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(iv)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(v)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(vi)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(3)(vii)	HWMR-7 ; PART IX § 901 & § 902	X		
when seeking to be permitted under the low risk waste provi- sions 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)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART IX § 901 & § 902	X		
	270.22(a)(5)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(iv)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(v)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(vi)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(5)(vii)	HWMR-7 ; PART IX § 901 & § 902	X		
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)(6)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
for a waiver from any trial burn:	270.22(a)(6)(i)	HWMR-7 PART IX § 901 & § 902	X		
	270.22(a)(6)(i)(A)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(6)(i)(B)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(a)(6)(i)(C)	HWMR-7 ; PART IX § 901 & § 902	X		
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 hazar- dous waste for which a permit is sought and any differences from POHCs for which data are provided	270.22(a)(6)(ii)	HWMR-7 PART IX § 901 & § 902	X		
minimum information to be submitted for industrial furnaces with organic matter in raw materials requesting an alter- native HC limit under 266.104(f)	270.22(b)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(1)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(2)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(3)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(4)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(4)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(4)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(5)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.22(b)(6)	HWMR-7 ; PART IX § 901 & § 902			

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

DRAFT

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)	HWMR-7 PART IX § 901 & § 902	X		
describe automatic waste feed cutoff system, including any pre-alarm systems	270.22(d)	HWMR-7 PART IX § 901 & § 902	X		
use of direct transfer operations requires submittal of information supporting 266.111 conformance	270.22(e)	HWMR-7 PART IX § 901 & § 902	X		
demonstration of 266.112 conformance if claim is made that residues are excluded from regulation	270.22(f)	HWMR-7 PART IX § 901 & § 902	X		

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)	HWMR-7 PART IX § 901 & § 902	X		
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RCRA REVISION CHECKLIST 85: Burning of Hazardous Waste in
Boilers and Industrial Furnaces (cont'd)

DRAFT

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)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		
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)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		
insert "The permittee" before "submits"; insert "or unit" after "waste"	270.42(g)(1)(ii)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		
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)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		
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)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
13 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)	HWMR-7 PART IX § 901 & § 902(B)(5)	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
change the heading of "L." to read "Incinerators, Boilers, and Industrial Furnaces"; in "L.1." 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.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 the heading of "L.6." to read "Burning different wastes."; in L.6.a.&b. change all "to incinerate" to "to burn"; in "7.b." change "waste incineration" to "waste burning"; in "L.8." insert "nonhazardous waste" before "fuel"	270.42/Appendix I	HWMR-7 PART IX § 901 & 902(B)(5)	X		

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

DRAFT

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)	HWMR-7 PART IX § 901 & § 902	X		
permit for new boiler or industrial furnace shall specify appropriate conditions for the following operating periods:	270.66(b)	HWMR-7 PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
submission 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)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

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)	HWMR-7 PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
information the trial burn plan must include; Director may require supplemental information	270.66(c)	HWMR-7 PART IX § 901 & § 902	X		
analysis of each feedstream, as fired	270.66(c)(1)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(1)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(1)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
analysis of each hazardous waste, as fired	270.66(c)(2)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(2)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(2)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(2)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
detailed engineering description of boiler or industrial furnace	270.66(c)(3)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(iv)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(v)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(vi)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(vii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(c)(3)(viii)	HWMR-7 ; PART IX § 901 & § 902	X		
detailed description of sampling and monitoring procedures	270.66(c)(4)	HWMR-7 ; PART IX § 901 & § 902	X		
detailed test schedule for each hazardous waste for which the trial burn is planned	270.66(c)(5)	HWMR-7 ; PART IX § 901 & § 902	X		
detailed test protocol	270.66(c)(6)	HWMR-7 ; PART IX § 901 & § 902	X		
description of, and planned operating conditions for, any emission control equipment to be used	270.66(c)(7)	HWMR-7 ; PART IX § 901 & § 902	X		
procedures for rapid stopping of hazardous waste feed and emis- sions control if an equipment malfunction	270.66(c)(8)	HWMR-7 ; PART IX § 901 & § 902	X		

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

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FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
other information Director finds necessary	270.66(c)(9)	HWMR-7 ; PART IX § 901 & § 902	X		
trial burn conducted to demonstrate conformance with 266.104-266.107 standards under an approved trial burn plan	270.66(d)(1)	HWMR-7 PART IX § 901 & § 902	X		
findings under which the Director shall approve a trial burn plan	270.66(d)(2)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(d)(2)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(d)(2)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(d)(2)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(d)(2)(iv)	HWMR-7 ; PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
submit all data collected during any trial burn	270.66(d)(4)	HWMR-7 PART IX § 901 & § 902	X		
270.66(d) submissions must be certified by signature of person authorized to sign permit application or 270.11 report	270.66(d)(5)	HWMR-7 PART IX § 901 & § 902	X		
for DRE trial burn under 266.104(a), Director will specify trial POHCs; basis for specification	270.66(e)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
determinations to be made based on each trial burn:	270.66(f)	HWMR-7 PART IX § 901 & § 902	X		
quantitative analysis of specified materials in the feedstreams	270.66(f)(1)	HWMR-7 ; PART IX § 901 & § 902	X		
determinations needed when a DRE trial burn is required under 266.104(a)	270.66(f)(2)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(f)(2)(i)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(f)(2)(ii)	HWMR-7 ; PART IX § 901 & § 902	X		
	270.66(f)(2)(iii)	HWMR-7 ; PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
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)	HWMR-7 PART IX § 901 & § 902	X		
identification of sources of fugitive emissions and their means of control	270.66(f)(6)	HWMR-7 PART IX § 901 & § 902	X		
continuous measurement of CO, oxygen, and HC in stack gas	270.66(f)(7)	HWMR-7 ; PART IX § 901 & § 902	X		
such other information as Director specifies	270.66(f)(8)	HWMR-7 ; PART IX § 901 & § 902	X		
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)	HWMR-7 PART IX § 901 & § 902	X		

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

DRAFT

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

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)	HWMR-7 PART IX § 901 & § 902	X		
add new paragraph regarding the addition of newly regulated units under 270.72(a)(6)	270.72(b)(7)	HWMR-7 PART IX § 901 & § 902	X		

TERMINATION OF INTERIM STATUS

14 insert "which has achieved interim status prior to November 8, 1984, interim status terminates" before "on November 8, 1989"	270.73(f)	HWMR-7 PART IX § 901 & § 902	X		
14 insert "which has achieved interim status prior to November 8, 1984, interim status terminates" before "on November 8, 1992"	270.73(g)	HWMR-7 PART IX § 901 & § 902	X		

¹ Note that the Federal Register addressed by this checklist does not redesignate 261.2(d)(3) and 261.2(d)(4) as 261.2(d)(4) and 261.2(d)(5). This is an error, and these paragraphs should be redesignated. This omission is addressed by the July 17, 1991 (56 FR 32688; Revision Checklist 94) correction notice.

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).

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

DRAFT

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

- 3 Note that EPA has adopted a format in the Federal Register where the designation of a citation beyond a certain subparagraph is italicized. However, both the February 21, 1991 and June 17, 1991 Federal Registers (Revision Checklists 85 and 94) contain a typographical error in that they failed to italicize this subparagraph. The error was corrected in the citation for this subparagraph on this checklist.
- 4 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.
- 5 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).
- 6 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 (I)." See the technical correction at 56 FR 32689 (July 17, 1991; Revision Checklist 94).
- 7 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-."
- 8 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).
- 9 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).
- 10 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.
- 11 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.
- 12 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.

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

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

¹³ 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.

¹⁴ 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 32692 (July 17, 1991).

RCRA REVISION CHECKLIST 86

Removal of Strontium Sulfide from the
List of Hazardous Wastes: Technical Amendment
56 FR 7567-7568
February 25, 1991
(RCRA Cluster I, Non-HSWA Rule)

Note: 1) Because of an error in the amendatory language in the rule (53 FR 43881, October 31, 1988, Revision Checklist 57) removing strontium sulfide from the list of hazardous wastes, this chemical was not removed from §261.33 or Part 261, Appendix VIII. This technical amendment corrects that error by removing strontium sulfide from the two lists. States which have not adopted the changes addressed by Revision Checklist 57, but intend to remove strontium sulfide from their lists of hazardous waste, are strongly encouraged to adopt these technical amendments at the same time the Revision Checklist 57 provisions are adopted. States already adopting the Revision Checklist 57 changes are encouraged to adopt the Revision Checklist 86 amendments as soon as possible.

2) This is a conditionally optional checklist. States choosing to not remove strontium sulfide from their hazardous waste lists should not adopt the changes addressed by this present checklist. However, those States which choose to remove this hazardous waste must adopt the changes addressed by Revision Checklist 86 to assure that strontium sulfide has been properly removed from the State's hazardous waste lists and appendices.

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

PART 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SUBPART D - LISTS OF HAZARDOUS WASTES

DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES,
CONTAINER RESIDUES, AND SPILL RESIDUES THEREOF

† remove listing as shown below	261.33(e)	HWMR-7 ; PART II § 201	X		
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The following waste has been removed from the 261.33(e) list:

"P107...1314-96-1...Strontium sulfide SrS"

APPENDIX VIII TO PART 261

HAZARDOUS CONSTITUENTS

† remove listing as shown below	Appendix VIII	HWMR-7 ; PART II § 201	X		
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RCRA REVISION CHECKLIST 86: Removal of Strontium Sulfide from the **DRAFT**
List of Hazardous Wastes; Technical Amendment (cont'd)

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

The following listing has been removed from Appendix VIII:

"Strontium sulfide...Strontium sulfide SrS...1314-96-1...P107"

SPA 11

RCRA REVISION CHECKLIST 87

Organic Air Emission Standards for Process
Vents and Equipment Leaks; Technical Amendment
56 FR 19290
April 26, 1991
(RCRA Cluster I, HSWA Rule)

Note: The technical amendment addressed by this checklist corrects errors made in the Organic Air Emissions Final rule at 55 FR 25454 (June 21, 1990; Revision Checklist 79). States are strongly encouraged to adopt the corrections addressed by Revision Checklist 87 at the same time the Revision Checklist 79 provisions are adopted. States which have already adopted the Checklist 79 provisions are encouraged to adopt the corrections addressed by Revision Checklist 87 as soon as possible.

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

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

SUBPART AA - AIR EMISSION STANDARDS FOR PROCESS VENTS

APPLICABILITY

change "2641" to "264.1"	264.1030(a)	HWMR-7 501 Part V; 502 A.B.	X		
change "§§264.1034(d) and 264.1035(e)" to "§264.1034 (d) and (e)"	264.1030(b)	HWMR-7 501 Part V; 502 A.B.	X		

STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES

change "paragraphs (1) and (2) of this section" to "paragraphs (f)(1) and (2) of this section"	264.1033(f)(3)	HWMR-7 501 Part V; 502 A.B.	X		
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RECORDKEEPING REQUIREMENTS

change "Records including the dates of" to "Records, including the dates, of"	264.1035(b)(4)(ii)	HWMR-7 501 Part V; 502 A.B.	X		
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RCRA REVISION CHECKLIST 87: Organic Air Emission Standards for Process Vents and Equipment Leaks; Technical Amendment (cont'd) SPA 11

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

SUBPART BB - AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

STANDARDS: PUMPS IN LIGHT LIQUID SERVICE

change "a instrument reading" to "an instrument reading"	264.1052(b)(1)		X		
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PART 265 - INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

SUBPART B - GENERAL FACILITY STANDARDS

GENERAL WASTE ANALYSIS

change "265.193" to "265.200"	265.13(b)(6)	HWMR-7 Part VI; 601	X		
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SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

OPERATING RECORD

change "265.193" to "265.200"	265.73(b)(3)	HWMR-7 Part VI; 601	X		
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SUBPART AA - AIR EMISSION STANDARDS FOR PROCESS VENTS

APPLICABILITY

change "§§265.1034(d) and 265.1035(d)" to "§265.1034(d) and (e)"	265.1030(b)	HWMR-7 Part VI; 601 602A.B.	X		
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TEST METHODS AND PROCEDURES

change "E _h as determined in paragraph (c)(1)(v) of the section" to "E _h as determined in paragraph (c)(1)(iv) of this section"	265.1034(c)(1)(vi)	HWMR-7 Part VI; 601 602 A.B.	X		
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RCRA REVISION CHECKLIST 87: Organic Air Emission Standards for Process Vents and Equipment Leaks; Technical Amendment (cont'd)

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

RECORDKEEPING REQUIREMENTS

change "Records including the dates of" to "Records, including the dates, of"	265.1035(b)(4)(ii)	HWMR-7 Part VI; 601 602 A.B.	X		
change "Paragraph (3)" to "paragraph (c)(4) of this section"	265.1035(c)(5)				

SUBPART BB - AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS**STANDARDS: PUMPS IN LIGHT LIQUID SERVICE**

revise "paragraph (a)(2)" to read "paragraph (e)(2)"	265.1052(e)(3)	HWMR-7 Part VI; 601 602 A.B.	X		
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RECORDKEEPING REQUIREMENTS

change "265.1953" to "265.1053"	265.1064(c)	HWMR-7 Part VI; 601 602 A.B.	X		
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**PART 270 - EPA ADMINISTERED PERMIT PROGRAMS:
THE HAZARDOUS WASTE PERMIT PROGRAM**

SUBPART B - PERMIT APPLICATION**SPECIFIC PART B INFORMATION REQUIREMENTS FOR PROCESS VENTS**

change "records including the dates of each compliance test required by §264.103(k)." to "Records, including the dates, of each compliance test required by §264.1033(k)."	270.24(d)(2)	HWMR-7 Part IX; 901			
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RCRA REVISION CHECKLIST 87: Organic Air Emission Standards for Process SPA 11
Vents and Equipment Leaks; Technical Amendment (cont'd)

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

SPECIFIC PART B INFORMATION REQUIREMENTS FOR EQUIPMENT

change "Records including the dates of" to "Records, including the dates, of"	270.25(e)(2)	HWMR-7 Part IX; 901	X		
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RCRA REVISION CHECKLIST 88

Administrative Stay for K069 Listing
 56 FR 19951
 May 1, 1991
 (RCRA Cluster I, non-HSWA)

Note: This May 1, 1991 (56 FR 19951) notice administratively stays the K069 listing so that the listing does not apply to slurries generated from pollution control devices that are intended to capture acid gases and are not dedicated chiefly to control of particulate air emissions. The stay remains in effect until further administrative action is taken. If EPA takes further action affecting this stay, EPA will publish a notice of the action in the Federal Register. A checklist is necessary because the code is affected. As this change narrows the scope of this listing, States are not required to adopt it; thus, this checklist has been designated as optional.

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
PART 261 -	1 A(20)	TING OF HAZARDOUS WASTE			
SL		HAZARDOUS WASTES			

† HAZARDOUS WASTES FRC

add note regarding administrative stay to K069 Listing as shown below	261.32	HWMR-7 PART II § 201	X		
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Industry and EPA hazardous waste No	Hazardous Waste	Hazard code
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Secondary lead:

K069 Emission control dust/sludge from secondary lead smelting. (T)
 (NOTE: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting this stay, EPA will publish a notice of action in the Federal Register.)