

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 81: Petroleum Refinery
Primary and Secondary Oil/Water/Solids
Separation Sludge Listings (F037 and F038) (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
for the purposes of F037 and F038, aggressive biological treatment units are defined as units which employ one of four specified treatment methods; specific requirements for high-rate aeration:	261.31(b)(2)(I)	HMMR-7; Part II 201	X		
units employ a minimum of 6 hp per million gallons of treatment volume and either:	261.31(b)(2)(I)(A)	HMMR-7; Part II 201	X		
the hydraulic retention time of the unit is no longer than 5 days	261.31(b)(2)(I)(B)	HMMR-7; Part II 201	X		
the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is hazardous waste by the Toxicity Characteristic	261.31(b)(2)(I)(C)	HMMR-7; Part II 201	X		
generators and treatment, storage and disposal facilities must prove their sludges are exempt from listing as F037 and F038 wastes; maintenance of documents and data sufficient to prove that:	261.31(b)(2)(II)	HMMR-7; Part II 201	X		

RCRA REVISION CHECKLIST 81: Petroleum Refinery
Primary and Secondary Oil/Water/Solids
Separation Sludge Listings (F037 and F038) (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
unit is an aggressive biological treatment unit as defined in 261.31(b)(2)	261.31(b)(2)(ii)(A)	HMMR-7; Part II 201	X		
2 sludges were actually generated in the aggressive biological treatment unit	261.31(b)(2)(ii)(B)	HMMR-7; Part II 201	X		
sludges are considered to be generated at the moment of deposition in the unit for the purposes of the F037 listing; deposition defined	261.31(b)(3)(i)	HMMR-7; Part II 201	X		
for the purposes of the F038 listing	261.31(b)(3)(ii)	HMMR-7; Part II 201	X		
sludges are considered to be generated at the moment of deposition in the unit; deposition defined	261.31(b)(3)(ii)(A)	HMMR-7; Part II 201	X		
floats are considered to be generated at the moment they are formed in the top of the unit	261.31(b)(3)(ii)(B)	HMMR-7; Part II 201	X		

APPENDIX VII TO PART 261

BASIS FOR LISTING HAZARDOUS WASTE

add the waste codes "F037" and "F038" in alphanumeric order to list as shown below:	Appendix VII	HMMR-7; Part II 201	X		
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RCRA REVISION CHECKLIST 81: Petroleum Refinery
Primary and Secondary Oil/Water/Solids
Separation Sludge Listings (F037 and F038) (Cont'd)

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

APPENDIX VII.--BASIS FOR LISTING
HAZARDOUS WASTE

EPA hazardous waste No.	Hazardous constituents for which listed
* * * * *	
F037	Benzene, benzo(a)pyrene, chrysene, lead, chromium.
F038	Benzene, benzo(a)pyrene chry- sene, lead, chromium.
* * * * *	

¹ The introductory paragraph and table were originally introduced into the code as 261.31. The final rule for this checklist has redesignated the old 261.31 as 261.31(a) and added a new paragraph, 261.31(b).

² See technical corrections to the rule at 55 FR 51707 (December 17, 1990).

RCRA REVISION CHECKLIST 82

Wood Preserving Listings

55 FR 50450-50490

December 6, 1990

(RCRA Cluster I, HSWA and Non-HSWA Provisions)

1) This Revision Checklist adds three broad categories of wastes from wood preserving processes that use chlorophenolic, creosote, and/or inorganic (arsenical and chromium) preservatives to the list of wastes from non-specific sources. These wastes, F032, F034 and F035, include wastewaters, process residuals, preservative drippage and spent formulations. The listing of F032 and the permitting and interim status standards applicable to drip pads handling this waste are promulgated pursuant to HSWA. The listings of F034 and F035, the permitting and interim standards for drip pads that handle F034 and F035 wastes, and the addition of a test method to Appendix III of Part 261 are non-HSWA provisions. EPA will implement the addition of F032 to the list of hazardous wastes from non-specific sources 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 interim or final authorization. In authorized States, the non-HSWA requirements will not be applicable until the States revise their programs to adopt equivalent requirements under State law, unless the wastes are designated as hazardous due to the Toxicity Characteristic, which would allow an owner or operator to comply with the drip pad standards administered under Federal law.

2) Note that on June 13, 1991 (56 FR 27332), an administrative stay was published affecting this final rule. Because the Federal code was changed, a checklist was developed, Revision Checklist 91. The changes addressed by that checklist are all optional.

3) Technical corrections were made to this rule on July 1, 1991 (56 FR 30192; Revision Checklist 92). States are strongly encouraged to adopt those technical corrections at the same time that Revision Checklist 82 provisions are adopted.

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

DEFINITIONS

add "drip pad" in alphabetical order	260.10	HWMR-7 ; PART I § 101 & § 102	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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 A - GENERAL

EXCLUSIONS

add new paragraph
which excludes as a
solid waste spent
wood preserving
solutions that have
been used and are
reclaimed and reused
for their original
intended purpose

261.4(a)(9)

HWMR-7
PART II
§ 201

X

SUBPART D - LISTS OF HAZARDOUS WASTES

HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES

add the waste codes
"F032", "F034" and
"F035" in alpha-
numeric order to list
as shown below

261.31(a)

HWMR-7
PART II
§ 201

X

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
Industry and EPA hazardous waste No.		Hazardous waste	Hazard code		
*	*	*	*	*	*
F032 . . .	Wastewaters, process residuals, preservative drippage, and spent formula- tions from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with §261.35 of this chapter and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.			(T)	
F034 . . .	Wastewaters, process residuals, preservative drippage, and spent formula- tions from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.			(T)	
F035 . . .	Wastewaters, process residuals, preservative drippage, and spent formula- tions from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.			(T)	
*	*	*	*	*	*

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

DELETION OF CERTAIN HAZARDOUS WASTE CODES FOLLOWING EQUIPMENT CLEANING AND REPLACEMENT

wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the 261.35(b) and (c) requirements are met; wastes may continue to meet another hazardous waste listing description or exhibit one or more characteristics	261.35(a)	HWMR-7 PART II § 201	X		
generators must either clean or replace all specified process equipment that may have come into contact with chlorophenolic formulations or constituents; generators must either:	261.35(b)	HWMR-7 PART II § 201	X		
prepare and sign a written equipment cleaning or replacement plan and conduct cleaning and/or replacement of equipment in accordance with plan; manage discarded equipment as F032 waste	261.35(b)(1)	HWMR-7 PART II § 201	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
removal of all visible residues from process equipment and rinsing process equipment with appropriate solvent to meet specified criteria when tested in accordance with SW-846 Method 8290; management of all residues as F032 waste	261.35(b)(2)	HWMR-7 PART II § 201	X		
document that previous equipment cleaning or replacement was performed in accordance with 261.35 requirements and occurred after a change in preservative	261.35(b)(3)	HWMR-7 PART II § 201	X		
documentation that must be maintained as part of the facility's operating record	261.35(c)	HWMR-7 PART II § 201	X		
name and address of the facility	261.35(c)(1)	HWMR-7 ; PART II § 201	X		
formulations previously used and the date on which their use ceased in each process at the plant	261.35(c)(2)	HWMR-7 PART II § 201	X		
formulations currently used in each process at the plant	261.35(c)(3)	HWMR-7 ; PART II § 201	X		
equipment cleaning or replacement plan	261.35(c)(4)	HWMR-7 ; PART II § 201	X		
name and address of any persons who conducted the cleaning and replacement	261.35(c)(5)	HWMR-7 PART II § 201	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
dates on which cleaning and replacement were accomplished	261.35(c)(6)	HWMR-7 PART II § 201	X		
dates of sampling and testing	261.35(c)(7)	HWMR-7 ; PART II § 201	X		
description of sample handling and preparation techniques	261.35(c)(8)	HWMR-7 ; PART II § 201	X		
description of the tests performed, the date, and the results of the tests	261.35(c)(9)	HWMR-7 PART II § 201	X		
name and model numbers of the instrument(s) used in performing the tests	261.35(c)(10)	HWMR-7 PART II § 201	X		
QA/QC documentation	261.35(c)(11)	HWMR-7 ; PART II § 201	X		
signed certification statement	261.35(c)(12)	HWMR-7 ; PART II § 201	X		

APPENDIX III TO PART 261

CHEMICAL ANALYSIS TEST METHODS

add the compound, "Benzo(k) fluoranthene", in alphabetical order, to Table 1	Table 1, Appendix III	HWMR-7 PART II § 201	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

TABLE 1. --ANALYSIS METHODS FOR
ORGANIC CHEMICALS CONTAINED IN SW-846

Compound	Method Nos.
* * * * *	
Benzo(k) fluoranthene	8100,8250, 8270,8310
* * * * *	

APPENDIX VII TO PART 261

BASIS FOR LISTING HAZARDOUS WASTE

add "F032", "F034",
and "F035" to list
in alphanumeric order
as shown below:

Appendix VII	HWMR-7 PART II § 201	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

EPA hazardous waste No.	Hazardous constituents for which listed
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F032.....	Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans.
F034.....	Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium.
F035.....	Arsenic, chromium, lead.

APPENDIX VIII TO PART 261

HAZARDOUS CONSTITUENTS

add the specified hazardous constituents in alphabetical order as shown below:

Appendix VIII	HWMR-7 PART II § 201	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
*	*	*	*
Benzo(k)fluoranthene	Same . . .	207-08-9	
*	*	*	*
Heptachlorodibenzofurans			
Heptachlorodibenzo-p-dioxins			
*	*	*	*

PART 262 - STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE

SUBPART C - PRE-TRANSPORT REQUIREMENTS

ACCUMULATION TIME

† redesignate paragraph (a)(2) as (a)(3); add new paragraph requiring placement of waste on drip pads, generator compliance with Subpart W of Part 265 and maintenance of the following records at the facility:	262.34(a)(2)	HWMR-7 PART III § 301	X		
† description of procedures to ensure wastes are removed from drip pad and associated collection system at least once every 90 days	262.34(a)(2)(i)	HWMR-7 PART III § 301	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
† documentation of each waste removal, including quantity, date and time of removal; generator exemption from Subparts G and H of Part 265 requirements, except for 265.111 and 265.114	262.34(a)(2)(ii)	HWMR-7 PART III § 301	X		
redesignate "262.34(a)(2)" as "262.34(a)(3)"	262.34(a)(3)	HWMR-7 PART III § 301	X		
redesignate "262.34(a)(3)" as "262.34(a)(4)"	262.34(a)(4)	HWMR-7 ; PART III § 301	X		
redesignate "262.34(a)(4)" as "262.34(a)(5)"	262.34(a)(5)	HWMR-7 ; PART III § 301	X		

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

SUBPART J - TANK SYSTEMS

APPLICABILITY

add reference to paragraph (c)	264.190	HWMR-7 ; PART V § 501 & 502 (A) (B)	X		
add new paragraph subjecting tanks, sumps and other collection devices used in conjunction with Subpart W-regulated drip pads to Part 264, Subpart J requirements	264.190(c)	HWMR-7 PART V § 501 & 502 (A) (B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

SUBPART W - DRIP PADS

APPLICABILITY

Subpart W applies to owners and operators of facilities that use new or existing drip pads to convey treated wood drippage to an associated collection system; existing drip pads defined	264.570(a)	HWMR-7 PART V § 501 & 502 (A) (B)	X		
owner or operator of certain drip pads inside or under a structure not subject to 264.572(e) or 264.572(f) regulations, as appropriate	264.570(b)	HWMR-7 PART V § 501 & 502 (A) (B)	X		

ASSESSMENT OF EXISTING DRIP PAD INTEGRITY

evaluation of existing drip pads; by June 6, 1991, written assessment obtained and kept on file; annual review, update and recertification required until 264.572 standards are met, except 264.572(b) standards for liners and leak detection systems; documentation of drip pad age	264.571(a)	HWMR-7 PART V § 501 & 502 (A) (B)	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
development of written plan for up- grading, repairing and modifying drip pad to meet 264.572(b) requirements; submittal of plan to Regional Adminis- trator no later than 2 years before completion of modi- fications; written plan documentation, re- view and certification requirements; conditions for completion of upgrades, repairs and modifications	264.571(b)	HWMR-7 PART V § 501 & 501 (A)(B)	X		
for existing drip pads of known and documentable age, upgrades, repairs and modifications completed within two years of June 6, 1991, or when the drip pad has reached 15 years of age, whichever comes later	264.571(b)(1)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
for existing drip pads with no documentable age, upgrades, repairs and modifications must be completed within 8 years of June 6, 1991; if facility is over 7 years old, completion by the time facility reaches 15 years or by two years after June 6, 1991, which- ever comes later	264.571(b)(2)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
conditions under which owner or operator may petition Regional Administrator for extension of deadline; petition granted if drip pad meets all 264.572 requirements, except those for liners and leak detection systems specified in 264.572(b)	264.571(b)(3)	HWMR-7 PART VI § 501 & 502 (A)(B)	X		
submittal of required drawings and certification to Regional Administrator or State Director upon completion of all repairs and modifications	264.571(c)	HWMR-7 PART VI § 501 & 502 (A)(B)	X		
if drip pad found to be leaking or unfit for use, compliance with 264.572(m) provisions or close drip pad in accordance with 264.574	264.571(d)	HWMR-7 PART VI § 501 & 502 (A)(B)	X		

DESIGN AND OPERATING REQUIREMENTS

drip pads must:	264.572(a)	HWMR-7 ; PART VI § 501	X		
be constructed of non-earthen materials, excluding wood and non-structurally supported asphalt	264.572(a)(1)	HWMR-7 PART VI § 501 & 502 (A)(B)	X		
be sloped for free-drainage to the associated collection system	264.572(a)(2)	HWMR-7 PART VI § 501 & 502 (A)(B)	X		
have a curb or berm around the perimeter	264.572(a)(3)	HWMR-7 ; PART VI § 501 & 502 (A)(B)	X		
be impermeable as specified	264.572(a)(4)	HWMR-7 ; PART VI § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
be of sufficient structural strength and thickness to meet specified conditions; note regarding structural integrity standards	264.572(a)(5)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
a drip pad must have:	264.572(b)	HWMR-7 ; PART V § 501&502 (A)(B)	X		
a synthetic liner that meets certain design, construction and installation specifications	264.572(b)(1)	HWMR-7 PART V § 501&502 (A)(B)	X		
specific requirements for liner construction materials	264.572(b)(1)(i)	HWMR-7 PART V § 501&502 (A)(B)	X		
foundation or base requirements	264.572(b)(1)(ii)	HWMR-7 ; PART V § 501&502 (A)(B)	X		
liner must cover all surrounding earth that could come into contact with the waste or leakage	264.572(b)(1)(iii)	HWMR-7 PART V § 501&502 (A)(B)	X		
leakage detection system immediately above the liner; detection system must be:	264.572(b)(2)	HWMR-7 PART V § 501&502 (A)(B)	X		
constructed of materials that are:	264.572(b)(2)(i)	HWMR-7 ; PART V § 501&502 (A)(B)	X		
chemically resistant to relevant waste and leakage	264.572(b)(2)(i)(A)	HWMR-7 ; PART V § 501&502 (A)(B)	X		
of sufficient strength and thickness to prevent collapse	264.572(b)(2)(i)(B)	HWMR-7 PART V § 501&502 (A)(B)	X		
designed and operated to function without clogging through the scheduled closure of the drip pad	264.572(b)(2)(ii)	HWMR-7 PART V § 501&502 (A)(B)	X		
designed to detect drip pad failure or the release of hazardous waste or accumulated liquid at the earliest practicable time	264.572(b)(2)(iii)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
maintenance of drip pads; note regarding remedial action	264.572(c)	HWMR-7 PART V § 501&502 (A)(B)	X		
convey, drain, and collect liquid resulting from drippage or precipitation in order to prevent run-off	264.572(d)	HWMR-7 PART V § 501&502 (A)(B)	X		
run-on control system requirements, unless control system is protected by a structure, as described in 264.570(b)	264.572(e)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
run-off management system requirements, unless system is protected by a structure, as described in 264.570(b)	264.572(f)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
evaluation of drip pad for compliance with 264.572(a) - (f) requirements; design certification required	264.572(g)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
removal of drippage and accumulated precipitation from associated collection system as necessary to prevent overflow onto the drip pad	264.572(h)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
thorough cleaning of drip pad surface at least once every seven days to meet specified conditions; documentation of date, time and cleaning procedure in facility's operating log	264.572(i)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
minimize tracking of hazardous waste or constituents off the drip pad	264.572(j)	HWMR-7 PART V § 501&502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
after removal from treatment vessel, treated wood from pressure and non-pressure processes must be held on pad until drippage has ceased; documentation required	264.572(k)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
collection and holding units for run-on and run-off control systems emptied or otherwise managed as soon as possible after storms to maintain design capacity	264.572(l)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
throughout the active life of the drip pad and as specified in the permit, repair of detected condition that could lead to or has caused a release of hazardous waste within a reasonable period of time, in accordance with the following procedures:	264.572(m)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
upon detection of a condition that has led or could lead to a release of hazardous waste, the owner must:	264.572(m)(1)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
enter discovery in the facility operating log	264.572(m)(1)(i)	HWMR-7 ; PART V § 501 & 502 (A)(B)	X		
immediately remove from service affected portion of drip pad	264.572(m)(1)(ii)	HWMR-7 ; PART V § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
determine steps to repair drip pad and clean up any leakage; establish schedule for repairs	264.572(m)(1)(iii)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
notify Regional Administrator within 24 hours after discovery; provide written notice as specified within 10 working days	264.572(m)(1)(iv)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
review, determination and notification by Regional Administrator	264.572(m)(2)	HWMR-7 ; PART V § 501&502 (A)(B)	X		
1 written notification to Regional Administrator and certification of compliance with 264.572(m)(1)(iv) after repairs and clean up	264.572(m)(3)	HWMR-7 PART V § 501&502 (A)(B)	X		
should a permit be necessary, Regional Administrator will specify in the permit all design and operating practices necessary to ensure that 264.572 requirements are met	264.572(n)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
documentation in operating log, as specified, of past operating and waste handling practices	264.572(o)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

INSPECTIONS

inspection of liners and cover systems for uniformity, damage and imperfections during construction or installation; inspection and certification of liners to meet 264.572 requirements; maintenance of certification as part of the facility operating record; inspection of liners and covers after installation	264.573(a)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
drip pad must be inspected weekly and after storms to detect evidence of any of the following:	264.573(b)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
deterioration, malfunctions or improper operation of run-on and run-off control systems	264.573(b)(1)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
presence of leakage in and proper functioning of leak detection system	264.573(b)(2)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
deterioration or cracking of drip pad surface; note regarding remedial action	264.573(b)(3)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

CLOSURE

at closure, removal and decontamination requirements; management as hazardous waste	264.574(a)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
conditions under which owner or operator must close facility and perform post-closure care in accordance with 264.310 requirements; for permitted units, permit requirement continues throughout post-closure period; drip pad is considered a landfill and must meet Subparts G and H requirements of Part 264	264.574(b)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
owner or operator of an existing drip pad that does not comply with the 264.572(b)(1) liner requirements must:	264.574(c)(1)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
include in closure plans for drip pad under 264.112, a plan for 264.574(a) compliance and a contingent plan for 264.574(b) compliance	264.574(c)(1)(i)	HWMR-7 PART V § 501 & 502 (A)(B)	X		
prepare a contingent post-closure plan under 264.118 for complying with 264.574(b) in case not all contaminated subsoils can be practicably removed at closure	264.574(c)(1)(ii)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
cost estimates calculated under 264.112 and 264.144 for closure and post-closure care of drip pad subject to 264.574 must include the cost of complying with the contingent closure plan and the contingent post-closure plan; cost of expected closure under 264.574(a) need not be included	264.574(c)(2)	HWMR-7 PART V § 501 & 502 (A)(B)	X		

DESIGN AND INSTALLATION OF NEW DRIP PADS

owners and operators of drip pads must ensure that the pads are designed, installed and operated in accordance with all applicable 264.572, 264.573 and 264.574 requirements	264.575	HWMR-7 PART V § 501 & 502 (A)(B)	X		
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PART 265 - INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES

SUBPART J - TANK SYSTEMS

APPLICABILITY

add reference to paragraph (c)	265.190	HWMR-7 ; PART VI § 601 & 602 (A)(B)	X		
add new paragraph subjecting tanks, sumps and other collection devices used in conjunction with Subpart W-regulated drip pads to Part 265, Subpart J requirements	265.190(c)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

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

SUBPART W - DRIP PADS

APPLICABILITY

Subpart W applies to owners and operators of facilities that use new or existing drip pads to convey treated wood drippage to an associated collection system; existing drip pads defined	265.440(a)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
owner or operator of certain drip pads inside or under a structure not subject to 265.443(e) or 265.443(f) regulations, as appropriate	265.440(b)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

ASSESSMENT OF EXISTING DRIP PAD INTEGRITY

evaluation of existing drip pads; by June 6, 1991, written assessment obtained and kept on file; annual review, update and recertification required until 265.443 standards are met, except for 265.443(b) standards for liners and leak detection systems; documentation of drip pad age	265.441(a)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
development of written plan for up- grading, repairing and modifying drip pad to meet 265.443(b) requirements; submittal of plan to Regional Adminis- trator no later than 2 years before completion of modi- fications; written plan docu- mentation, review and certification require- ments; conditions for completion of upgrades, repairs and modifications	265.441(b)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
for existing drip pads of known and documentable age, upgrades, repairs and modifications completed within two years of June 6, 1991; or when the drip pad has reached 15 years of age, whichever comes later	265.441(b)(1)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
for existing drip pads with no documentable age, upgrades, repairs and modifications must be completed within 8 years of June June 6, 1991; if facility is over 7 years old, completion by the time facility reaches 15 years or by two years after June 6, 1991, whichever comes later	265.441(b)(2)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
conditions under which owner or operator may petition Regional Administrator for extension of deadline; petition granted if drip pad meets all 265.443 requirements, except those for liners and leak detection systems specified in 265.443(b)	265.441(b)(3)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
submittal of required drawings and certification to Regional Administrator or State Director upon completion of all repairs and modifications	265.441(c)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
if drip pad found to be leaking or unfit for use, comply with 265.443(m) provisions or close drip pad in accordance with 265.445	265.441(d)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

DESIGN AND INSTALLATION OF NEW DRIP PADS

owners and operators of new drip pads must ensure that the pads are designed, installed and operated in accordance with all applicable 265.443, 265.444 and 265.445 requirements	265.442	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
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DESIGN AND OPERATING REQUIREMENTS

drip pads must:	265.443(a)	HWMR-7 ; PART VI § 601&602	X		
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RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
be constructed of non-earthen materials, excluding wood and non-structurally supported asphalt	265.443(a)(1)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
be sloped to free-drain wastes to the associated collection system	265.443(a)(2)	HWMR-7 PART VI § 601&602 (A)(B)	X		
have a curb or berm around the perimeter	265.443(a)(3)	HWMR-7 ; PART VI § 601&602 (A)(B)	X		
be impermeable as specified	265.443(a)(4)	HWMR-7 ; PART VI § 601&602 (A)(B)	X		
be of sufficient structural strength and thickness to meet specified conditions; note regarding structural integrity standards	265.443(a)(5)	HWMR-7 PART VI § 601&602 (A)(B)	X		
a new drip pad or an existing drip pad, after the 265.441(b) deadline, must have:	265.443(b)	HWMR-7 PART VI § 601&602 (A)(B)	X		
a synthetic liner that meets certain specifications	265.443(b)(1)	HWMR-7 602(A)(B) PART VI ; § 601	X		
specific requirements for liner construction materials	265.443(b)(1)(i)	HWMR-7 ; PART VI § 601&602	X		
foundation or base requirements	265.443(b)(1)(ii)	HWMR-7 ; PART VI § 601&602	X		
liner must cover all surrounding earth that could come into contact with the waste or leakage	265.443(b)(1)(iii)	HWMR-7 PART VI § 601&602 (A)(B)	X		
leakage detection system immediately above the liner; detection system must be:	265.443(b)(2)	HWMR-7 PART VI § 601&602 (A)(B)	X		
constructed of materials that are:	265.443(b)(2)(i)	HWMR-7 ; PART VI § 601&602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
chemically resistant to relevant waste and leakage	265.443(b)(2)(i)(A)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
of sufficient strength and thickness to prevent collapse	265.443(b)(2)(i)(B)	HWMR-7 ; PART VI § 601 & 602 (A)(B)	X		
designed to detect the failure of the drip pad or the presence of hazardous waste release or accumulated liquid at the earliest practicable time	265.443(b)(2)(ii)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
maintenance of drip pads; note regarding remedial action	265.443(c)	HWMR-7 ; PART VI § 601 & 602 (A)(B)	X		
convey, drain, and collect liquid resulting from drippage or precipitation in order to prevent run-off	265.443(d)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
run-on control system requirements, unless drip pad is protected by a structure, as described in 265.440(b)	265.443(e)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
run-off management system requirements, unless drip pad is protected by a structure, as described in 265.440(b)	265.443(f)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
evaluation of drip pad for compliance with 265.443(a) - (f) requirements; design certification required	265.443(g)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

DRAFT

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
removal of drippage and accumulated precipitation from associated collection system as necessary to prevent overflow onto the drip pad	265.443(h)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
thorough cleaning of drip pad surface at least once every seven days to meet specified conditions; documentation of date, time and cleaning procedure in facility's operating log	265.443(i)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
minimize tracking of hazardous waste or constituents off the drip pad	265.443(j)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
after removal from treatment vessel, treated wood from pressure and non-pressure processes must be held on pad until drippage has ceased; documentation required	265.443(k)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
collection and holding units for run-on and run-off control systems emptied or otherwise managed as soon as possible after storms to maintain design capacity	265.443(l)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
throughout the active life of the drip pad and as specified in the permit, repair of detected condition that could lead to or has caused a release of hazardous waste within a reasonable period of time, in accordance with the following procedures:	265.443(m)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
upon detection of a condition that has led or could lead to a release of hazardous waste, the owner must:	265.443(m)(1)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
entry of discovery in the facility operating log	265.443(m)(1)(i)	HWMR-7 ; PART VI § 601&602 (A)(B)	X		
immediate removal from service of affected portion of drip pad	265.443(m)(1)(ii)	HWMR-7 ; PART VI § 601 & 602 (A)(B)	X		
determination of steps to repair drip pad, remove any leakage, and establish schedule for clean up and repairs	265.443(m)(1)(iii)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
notify Regional Administrator within 24 hours after discovery; provide written notice as specified within 10 working days	265.443(m)(1)(iv)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
review, determination and notification by Regional Administrator	265.443(m)(2)	HWMR-7 ; PART VI § 601&602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
2 written notification to Regional Administrator and certification of compliance with 265.443(m)(1)(iv) after repairs and clean up	265.443(m)(3)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
documentation in operating log, as specified, of past operating and waste handling practices	265.443(n)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

INSPECTIONS

inspection of liners and cover systems for uniformity, damage and imperfections during construction or installation; inspection and certification of liners to meet 265.443 requirements; maintenance of certification as part of the facility operating record; inspection of liners and covers after installation	265.444(a)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
drip pad must be inspected weekly and after storms to detect evidence of any of the following:	265.444(b)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
deterioration, malfunctions or improper operation of run-on and run-off control systems	265.444(b)(1)	WHRM-7 PART VI § 601 & 602 (A)(B)	X		
presence of leakage in and proper functioning of leak detection system	265.444(b)(2)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
deterioration or cracking of drip pad surface; note regarding remedial action	265.444(b)(3)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

CLOSURE

at closure, removal and decontamination requirements; management as hazardous waste	265.445(a)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
closure and post-closure care of drip pad as a landfill under 265.310, if some contaminated subsoils cannot be removed or decontaminated; for permitted units, permit requirement continues throughout post-closure period	265.445(b)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
owner or operator of an existing drip pad not in compliance with the 265.443(b)(1) liner requirements must:	265.445(c)(1)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
include in the closure plan for the drip pad under 265.112, a plan for 265.445(a) compliance and a contingent plan for 265.445(b) compliance	265.445(c)(1)(i)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		
prepare contingent post-closure plan under 265.118 for complying with 265.445(b) in case not all contaminated subsoils can be practicably removed at closure	265.445(c)(1)(ii)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
cost estimates calculated under 265.112 and 265.144 for closure and post-closure care of drip pad subject to 265.445 must include cost of complying with contingent closure plan and contingent post-closure plan; cost of expected closure under 265.445(a) need not be included	265.445(c)(2)	HWMR-7 PART VI § 601 & 602 (A)(B)	X		

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

SUBPART B - PERMIT APPLICATION

3 SPECIAL PART B INFORMATION REQUIREMENTS FOR DRIP PADS

additional information to be provided by owners and operators of hazardous waste treatment, storage, or disposal facilities that collect, store, or treat hazardous waste on drip pads, except as otherwise provided by 264.1	270.22	HWMR-7 PART IX § 901 & § 902	X		
list of hazardous wastes placed or to be placed on each drip pad	270.22(a)	HWMR-7 PART IX § 901 & § 902	X		
detailed plans and an engineering report describing how 264.90(b)(2) will be met, if an exemption is sought to Subpart F of Part 264	270.22(b)	HWMR-7 PART IX § 901 & § 902	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
detailed plans and an engineering report describing the design, construction, operation and maintenance of drip pad to meet 264.572 requirements; submission must address 264.571 items	270.22(c)	HWMR-7 PART IX § 901 & § 902	X		
design characteristics of the drip pad	270.22(c)(1)	HWMR-7 ; PART IX § 901 & § 902	X		
liner system	270.22(c)(2)	HWMR-7 ; PART IX § 901 & § 902	X		
leakage detection system	270.22(c)(3)	HWMR-7 ; PART IX § 901 & § 902	X		
practices designed to maintain drip pads	270.22(c)(4)	HWMR-7 ; PART IX § 901 & § 902	X		
associated collection system	270.22(c)(5)	HWMR-7 ; PART IX § 901 & § 902	X		
control of run-on to the drip pad	270.22(c)(6)	HWMR-7 ; PART IX § 901 & § 902	X		
control of run-off from the drip pad	270.22(c)(7)	HWMR-7 ; PART IX § 901 & § 902	X		
removal intervals and demonstration of sufficiency to prevent overflow	270.22(c)(8)	HWMR-7 ; PART IX § 901 & § 902	X		
procedures for cleaning drip pad at least once every seven days; provisions for documentation of date, time and cleaning procedure	270.22(c)(9)	HWMR-7 PART IX § 901 & § 902	X		
operating practices and procedures to minimize tracking of hazardous waste or waste constituents off the drip pad	270.22(c)(10)	HWMR-7 PART IX § 901 & § 902	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
procedures for ensuring that treated wood from pressure and non-pressure processes is held on the drip pad until drippage has ceased; recordkeeping practices	270.22(c)(11)	HWMR-7 PART IX § 901 & § 902	X		
provisions for ensuring that collection and holding units for run-on and run-off control systems are emptied or managed as soon as possible after storms to maintain design capacity	270.22(c)(12)	HWMR-7 PART IX § 901 & § 902	X		
if treatment is carried out on the drip pad, details of process equipment used, and the nature and quality of residuals	270.22(c)(13)	HWMR-7 PART IX § 901 & § 902	X		
description of drip pad inspections to meet 264.572 requirements; include in 270.14(b)(5) inspection plan	270.22(c)(14)	HWMR-7 PART IX § 901 & § 902	X		
certification that drip pad design meets 264.571(a) - (f) requirements	270.22(c)(15)	HWMR-7 PART IX § 901 & § 902	X		

RCRA REVISION CHECKLIST 82: Wood Preserving Listings (Cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
description of removal procedures at closure under 264.573(a); for waste not removed at closure, submittal of detailed plan and engineering report to describe compliance with 264.310(a) and (b); information should be included in closure plan and, where applicable, 270.14(b)(13) post-closure plan	270.22(c)(16)	HWMR-7 PART IX § 901 & § 902	X		

- ¹ Note that paragraph 264.572(m)(3) in the Federal Register (55 FR 50486, December 6, 1990), has an incorrect reference. The reference to "paragraph (m)(3) of this section" should be to "paragraph (m)(1)(iv) of this section." This error is addressed by the July 1, 1991 technical corrections to the rule (56 FR 30192).
- ² Note that paragraph 265.443(m)(3) in the Federal Register (55 FR 50488, December 6, 1990), has an incorrect reference. The reference to "paragraph (m)(3) of this section" should be to "paragraph (m)(1)(iv) of this section." This error is addressed by the July 1, 1991 technical corrections to the rule (56 FR 30192).
- ³ Note that the Boilers and Industrial Furnaces Rule (56 FR 7134; February 21, 1991; Revision Checklist 85) inadvertently removed these requirements from the code. The July 1, 1991 (56 FR 30192; Revision Checklist 92) Wood Preserving technical corrections notice rectified this problem by redesignating this section as 270.26.

RCRA REVISION CHECKLIST 83

Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments
56 FR 3864-3928'
January 31, 1991
RCRA Cluster I

Note: On June 1, 1990, EPA published regulations promulgating prohibitions on land disposal of the Third Third scheduled hazardous wastes (see Revision Checklist 78; 55 FR 22520). The final rule addressed by this present checklist corrects errors and clarifies the language in the preamble and regulations of the June 1, 1990 final rule. States adopting the Revision Checklist 78 provisions are strongly encouraged to adopt these technical amendments simultaneously, particularly due to the many revisions to 268.41, 268.42, 268.43 and the Part 268 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 A - GENERAL

DEFINITION OF HAZARDOUS WASTE

add parenthetical phrase regarding characteristic wastes, no longer exhibiting a characteristic, that still may be subject to 268 requirements	261.3(d)(1)	HWMR-7 Part II; 201	X		
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SUBPART C - CHARACTERISTICS OF HAZARDOUS WASTE

GENERAL

insert "used" after "This number must be"	261.20(b)	HWMR-7 Part II; 201	X		
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SUBPART D - LISTS OF HAZARDOUS WASTES

HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES

2 revise description of F039	261.31(a)	HWMR-7 Part II; 201	X		
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SPA 11

RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

PART 262 - STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE

SUBPART A - GENERAL

HAZARDOUS WASTE DETERMINATION

replace "subpart D of this part" with "subpart D of 40 CFR Part 261"	262.11(c)	HWMR-7 Part III; 301	X		
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SUBPART C - PRE-TRANSPORT REQUIREMENTS

ACCUMULATION TIME

replace "and" between "section" and "the requirements" with ";"; add "the requirements of 40 CFR 268.7(a)(4)"	262.34(d)(4)	HWMR-7 Part III; 301	X		
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PART 268 - LAND DISPOSAL RESTRICTIONS

SUBPART A - GENERAL

DEFINITIONS APPLICABLE IN THIS PART

replace "paragraph (g)(6)" with "paragraph (f)"	268.2(d)	HWMR-7 Part VIII; 801	X		
insert "wastewaters are" after "F005" at beginning of paragraph	268.2(f)(1)	HWMR-7 Part VIII; 801	X		
remove "(as generated) that" after "wastewaters"; add ", as generated." at end of paragraph	268.2(f)(2)	HWMR-7 Part VIII; 801	X		

SPA 11

RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
replace "Inorganic Solid Debris are" with "Inorganic Solid Debris means"; insert "contaminated with D004-D011 hazardous wastes" after "solids"; insert "; and" after "sieve"; remove the comma and insert "; and, are" after stabilization	268.2(g)	HWMR-7 Part VIII: 801	X		
3 replace periods at the end of each subparagraph with semicolons	268.2(g)(1)-(7)				

WASTE ANALYSIS AND RECORDKEEPING

replace "or section 268.43 of the part" with "of this part, if a generator's waste is listed in 40 CFR Part 261, Subpart D"; delete "developed"; replace "Appendix I of this part" with "Part 261, Appendix II"; add sentence regarding 268 Appendix IX testing or knowledge of waste to determine if waste exhibiting one or more characteristics is restricted from land disposal	268.7(a)	HWMR-7 Part VIII; 801	X		
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SPA 11

RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
replace "may" with "must either be included, or"; revise the information that must be included on the notification to include the applicable wastewater or non-wastewater category and waste code subdivision; change "treatment standards appear" to "applicable treatment standard appears"	268.7(a)(1)(ii)	HWMR-7 Part VIII; 801	X		
replace "may" with "must either be included, or"; revise the information that must be included on the notification to include the applicable wastewater or non-wastewater category and waste code subdivision; change "treatment standards appear" to "applicable treatment standard appears"	268.7(a)(2)(i)(B)	HWMR-7 Part VIII; 801	X		

SPA 11

RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
replace "may" with "must either be included, or"; revise the information that must be included on the notification to include the applicable wastewater or non-wastewater category and waste code sub-division; change "treatment standards appear" to "applicable treatment standard appears"	268.7(a)(3)(ii)	HW1R-7 Part VIII' 801	X		
redesignate 268.7(a)(6) as (a)(7); add new paragraph (a)(6) regarding conditions under which a generator, managing a restricted waste excluded from the definition of hazardous or solid waste, must place a one-time notice containing specified information in the facility's file	268.7(a)(6)	HW1R-7 Part VIII; 801			
redesignate old 268.7(a)(6) as 268.7(a)(7); add a sentence stating that the paragraph applies even when characteristic is removed prior to disposal or waste is excluded or exempted	268.7(a)(7)	HW1R-7 Part VIII; 801	X		
redesignate old 268.7(a)(7) as 268.8(a)(8)	268.7(a)(8)	HW1R-7 Part VIII; 801	X		

SPA 1

RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
redesignate old 268.7(a)(8) as 268.7(a)(9)	268.7(a)(9)	HWMR-7 Part VIII; 801	X		
redesignate old 268.7(a)(9) as 268.7(a)(10)	268.7(a)(10)	HWMR-7 Part VIII; 801	X		
replace "may" with "must either be included, or"; revise the information that must be included on the notification to include the applicable wastewater or non- wastewater category and waste code sub- division; change "treatment standards appear" to "applicable treatment standard appears"	268.7(b)(4)(ii)	HWMR-7 Part VIII; 801	X		

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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
SPECIAL RULES REGARDING WASTES THAT EXHIBIT A CHARACTERISTIC					
replace "each waste code" with "each EPA Hazardous Waste Number (waste code)"; replace "carry a waste code designation" with "carry the waste code"; replace ", and also" with ". In addition, the waste will carry"; replace "waste code designations" with "of the waste codes"; replace "the relevant characteristic." with "a characteristic,"; add exception clause regarding the case when the treatment standard for the waste code in 261, Subpart D is used in lieu of that for 261, Subpart C	268.9(a)	HW1R-7 Part VIII; 801	X		
delete from the notification requirements the "treatability group(s)" and add requirements for the applicable wastewater or non-wastewater category and waste code sub-divisions	268.9(d)(1)(ii)	HW1R-7 Part Viii; 801	X		

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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

SUBPART C - PROHIBITIONS ON LAND DISPOSAL

WASTE SPECIFIC PROHIBITIONS - FIRST THIRD WASTES

remove Hazardous Waste Nos. K048, K049, K050, K051, K052, and K061 (containing 15% zinc or greater); retain only K071 and revise grammar of paragraph to reflect a single waste	268.33(b)	HWMR-7 Part VIII; 801	X		
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WASTE SPECIFIC PROHIBITIONS - THIRD THIRD WASTES

add in alphanumeric order: "F002 (1,1,2-trichloroethane), F005 (benzene), F005 (2-ethoxy ethanol), F005 (2-nitro-propane)"; "F025"; "K015 (nonwaste-waters)"; ", reactive nonwastewaters)" after "K046 (wastewaters)"; "and (high zinc sub-category > 15% zinc)" after "K061 (waste-waters)"; ", calcium sulfate nonwaste-waters)" after "K069 (wastewaters)"; and "P026"; delete: "(wastewaters)" after "K083"; "(waste-waters)" after "P018"; "P109"; and "(waste-waters)" after "U120"	268.35(a)	HWMR-7 Part VIII; 801	X		
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**RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
delete "(nonwaste- waters)" after "P087"; delete "and" after "U151 (nonwastewaters)"; change "inorganic solids debris" to "inorganic solid debris"; change "268.2(a)(7)" to "268.2(g)"	268.35(c)	HWMR-7 Part VIII; 801	X		
add "268.10, 268.11, and" before "268.12"; add language pertain- ing to soil or debris contaminated with mixed radioactive/ hazardous wastes	268.35(d)	HWMR-7 Part VIII; 801	X		
delete "or" before "vitrification"; insert "acid leaching followed by chemical precipitation, or thermal recovery of metals," after "vitrification"	268.35(e)	HWMR-7 Part VIII; 801	X		

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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

SUBPART D - TREATMENT STANDARDS

APPLICABILITY OF TREATMENT STANDARDS

"Appendix I of this part" is replaced by "Appendix II of Part 261" in the first sentence; "These wastes" replaces the repetition of the waste code numbers; "Appendix I of this part or the test method in appendix II of part 261" is replaced by "40 CFR Part 261, Appendix II, or the test method in Appendix IX of this part" in the second sentence; "value shown in Table CCW" is replaced with "concentrations shown in Table CCWE"	268.40(a)	HWMR-7 Part VIII; 801	X		
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TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN WASTE EXTRACT

1 Table CCWE is revised to read as shown at 56 FR 3880-3884, January 31, 1991; also see explanation of revisions at 56 FR 3868-3869	268.41(a)/ Table CCWE	HWMR-7 Part VIII; 801	X		
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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
TREATMENT STANDARDS EXPRESSED AS SPECIFIED TECHNOLOGIES					
add "," after "264, subpart O"; change "part 268, subpart C" to "part 268, subpart D,"; insert "a" before "specific HOC."	268.42(a)(2)	HWMR-7 Part VIII; 801	X		
add new paragraph (a)(3); mixture of wastewater (discharge of which is subject to Clean Water Act) and de minimis losses of materials that meet the criteria of D001 ignitable liquids with greater than 10% TOC is subject to Table 1 DEACT treatment standard; de minimis defined	268.42(a)(3)	HWMR-7 Part VIII; 801			
revise Table 1 as shown at 56 FR 3884-3885; also see explanation of changes at 56 FR 3869	268.42(a)/Table 1	HWMR-7 Part VIII; 801	X		
revise Table 2 as shown at 56 FR 3885-3891; also see explanation of changes at 56 FR 3869	268.42(a)/Table 2	HWMR-7 Part VIII; 801	X		
revise Table 3 as shown at 56 FR 3891-3892; also see explanation of changes at 56 FR 3869	268.42(a)/Table 3	HWMR-7 Part VIII; 801	X		

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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

TREATMENT STANDARDS EXPRESSED AS WASTE CONCENTRATIONS

1 revise Table CCW as shown at 56 FR 3892-3911; also see explanation of changes at 56 FR 3869-3870	268.43(a)/Table CCW	HWMR-7 Part VIII; 801	X		
insert "by a footnote in Table CCW" before "in this section"	268.43(c)	HWMR-7 Part VIII; 801	X		
insert "standards" after "treatment"; insert comma after "Part 264, subpart O"; delete "40 CFR" before "part 265"	268.43(c)(1)	HWMR-7 Part VIII; 801	X		
revise paragraph to refer to the treatment or disposal facility	268.43(c)(2)	HWMR-7 Part VIII; 801	X		
revise last sentence so that "detection limits" for the "regulated" organic constituents are achieved	268.43(c)(3)	HWMR-7 Part VIII; 801	X		

APPENDIX IV TO PART 268

ORGANOMETALLIC LAB PACKS

1 revise Appendix IV as shown at 56 FR 3912; also see explanation of changes at 56 FR 3870	Appendix IV	HWMR-7 Part VIII; 801	X		
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**RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)**

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

APPENDIX V TO PART 268

ORGANIC LAB PACKS

1 revise Appendix V as shown at 56 FR 3912; also see explanation of changes at 56 FR 3870	Appendix V	HWMR-7 Part VIII; 801	X		
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APPENDIX VII TO PART 268

**TABLE 1. - EFFECTIVE DATES OF SURFACE DISPOSED WASTES (NON-SOIL AND DEBRIS)
REGULATED IN THE LDRs - COMPREHENSIVE**

1 revise Appendix VII to reflect two tables rather than one table; Table 1 is shown at 56 FR 3912-3919; also see explanation of changes at 56 FR 3870	Appendix VII/Table 1	HWMR-7 Part VIII; 801	X		
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**TABLE 2. - SUMMARY OF EFFECTIVE DATES OF LAND DISPOSAL RESTRICTIONS FOR
CONTAMINATED SOIL AND DEBRIS (CSD)**

1 revise Appendix VII to reflect two tables rather than one table; Table 2 is shown at 56 FR 3919-3920; also see explanation of changes at 56 FR 3870	Appendix VII/Table 2	HWMR-7 Part VIII; 801	X		
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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

APPENDIX VIII TO PART 268

NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES

1 revise Appendix VIII as shown at 56 FR 3920; also see explanation of changes at 56 FR 3870	Appendix VIII	HWMR-7 Part VIII; 801	X		
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APPENDIX IX TO PART 268

EXTRACTION PROCEDURE (EP) TOXICITY TEST METHOD AND STRUCTURAL INTEGRITY TEST (SW-846, METHOD 1310A)

1 add new appendix which describes an interim method to determine whether a waste exhibits the characteristic of EP Toxicity as shown at 56 FR 3920-3927; also see discussion at 56 FR 3870-3871	Appendix IX	HWMR-7 Part VIII; 801	X		
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PART 270 - EPA ADMINISTERED PERMIT PROGRAMS: THE HAZARDOUS
WASTE PERMIT PROGRAM

SUBPART D - CHANGES TO PERMIT

PERMIT MODIFICATION AT THE REQUEST OF THE PERMITTEE

add a footnote symbol to the Class 1 designation at B.1.b.	270.42/Appendix I	HWMR-7 901 Part IX; 9028	X		
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- 1 Note that the volume number on this Federal Register notice is incorrect. It should be 56 rather than 55; 55 was the volume corresponding to 1990.

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RCRA REVISION CHECKLIST 83: Land Disposal Restrictions for Third Third
Scheduled Wastes; Technical Amendments (cont'd)

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

- 2 The Federal Register (56 FR 3877) contains a typographical error in the revised description of F039. The reference to "F023" in the parenthetical phrase was inadvertently left out. States should not remove "F023" when revising their F039 description.
- 3 The Federal Register (56 FR 3877) incorrectly changes the period at the end of 268.2(g)(8) to a semicolon. States are advised to retain the period because 268.2(g)(8) is the last subparagraph in a series of eight pertaining to various inorganic or metal materials.