

US EPA ARCHIVE DOCUMENT

## CONSOLIDATED CHECKLIST C5

## Part 3 of 5 parts

Standards for Owners and Operators of Hazardous Waste Treatment,  
Storage, and Disposal Facilities40 CFR Part 264, Subparts K-S, as of **December 31, 2002**

**Note: No final rules affecting 40 CFR Part 264, Subparts K-S were promulgated between June 30, 2002 and December 31, 2002, therefore, this Consolidated Checklist corresponds to 40 CFR Part 264, Subparts K-S as published on July 1, 2002.**

Note: Consolidated Checklist C5 is divided into five separate documents/computer files solely for ease of handling its printed and electronic versions. Consolidated Checklist C5 remains one checklist; States must adopt all five portions simultaneously to correctly use this Consolidated Checklist. Note, the prenotes and endnotes associated with each part have been placed with the part to which they apply.

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
SUBPART K - SURFACE IMPOUNDMENTS							
APPLICABILITY							
surface impoundments used to treat, store, or dispose of hazardous waste	IV A	264.220					
DESIGN AND OPERATING REQUIREMENTS							
liner design, construction and installation	IV A,17 H	264.221(a) <b>intro</b>					
requirements for liner materials	IV A	264.221(a)(1)					
foundation or base requirements	IV A	264.221(a)(2)					
area to be covered	IV A	264.221(a)(3)					
considerations for exempting from 264.221(a)	IV A	264.221(b) <b>intro</b>					
		264.221(b)(1)					
		264.221(b)(2)					
		264.221(b)(3)					
		264.221(b)(4)					
surface impoundments which must install two or more liners and a leachate collection and removal system between such liners; "construction	17 H,77, 100	264.221(c)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
commences" defined under "existing facility"							
liner system must include:	100	264.221(c)(1)(i)					
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.221(c)(1)(i)(A)					
2 composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.221(c)(1)(i)(B)					
liners must comply with 264.221(a)(1),(2)&(3)	100	264.221(c)(1)(ii)					
relationship between "leachate collection and removal system" and a "leak detection system"; what system must be capable of; minimum requirements:	100	264.221(c)(2) <b>intro</b>					
bottom slope of 1 percent or more	100	264.221(c)(2)(i)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
3 constructed of: 1) granular drainage materials with $1 \times 10^{-1}$ cm/sec or more hydraulic conductivity and 12 in. (30.5 cm) or more thickness, or 2) synthetic or geonet drainage materials with $3 \times 10^{-4}$ m <sup>2</sup> /sec or more transmissivity	100	264.221(c)(2)(ii)					
construction material specifications	100	264.221(c)(2)(iii)					
designed and operated to minimize clogging during active life and post-closure care period	100	264.221(c)(2)(iv)					
specifications for sumps and liquid removal methods	100	264.221(c)(2)(v)					
collect and remove pumpable liquids in sumps to minimize head on bottom liner	100	264.221(c)(3)					
what must be demonstrated if leak detection system is not located completely above seasonal high water table	100	264.221(c)(4)					

†,1,4 Alternative Design and Operating Practices

Regional Administrator may approve alternate design or operating practices if owner or operator can demonstrate that design/practices will:	17 H,100	264.221(d) <b>intro</b>					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.221(c), and	100	264.221(d)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.221(d)(2)					

†,1,4 Waiver From Double Liner Requirements

conditions under which 264.221(c) requirements may be waived for a monofill	17 H	264.221(e) <b>intro</b>					
		264.221(e)(1) <b>intro</b>					
		264.221(e)(2)(i)(A)					
		264.221(e)(2)(i)(B)					
		264.221(e)(2)(i)(C)					
		264.221(e)(2)(ii)					
5 exemption from 264.221(c) for replacement surface impoundment unit	100	264.221(f) <b>intro</b>					
meets RCRA 3004(o)(1)(A)(i) and (o)(5) design standards	100	264.221(f)(1)					
no reason to believe liner is not functioning as designed	100	264.221(f)(2)					
5 prevention of overtopping and malfunctions	IV A,17 H, 100	264.221(g)					
5 structural integrity of dikes	IV A,17 H, 100	264.221(h)					
5 specifications in the permit	IV A,17 H, 100	264.221(i)					
6 ACTION LEAKAGE RATE							
Regional Administrator	IV	264.222(a)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
approval of action leakage rate for surface impoundment units subject to 264.221(c) or (d); definition of action leakage rate; adequate safety margin	A, 17 I, 100						
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly during active life and closure period and monthly during post-closure care period	100	264.222(b)					
RESPONSE ACTIONS							
approved response action plan before receipt of waste for surface impoundments subject to 264.221(c) or (d); address actions if action leakage rate exceeded; at a minimum plan must describe actions in 264.223(b)	100	264.223(a)					
responsibilities if flow rate into leak detection system exceeds the action leakage rate for any sump:	100	264.223(b)					
notify Regional Administrator in writing within seven days of determination	100	264.223(b)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.223(b)(2)					
determine location, size and cause of any leak	100	264.223(b)(3)					
determine 1) whether waste receipt should cease or be curtailed, 2) whether waste should be removed for inspection, repairs, or controls, and 3) whether unit should be closed	100	264.223(b)(4)					
determine short- and long-term actions to mitigate or stop any leaks	100	264.223(b)(5)					
within 30 days after Regional Administrator notification, submit the results of 264.223(b)(3)-(5) analyses, the results of actions taken, and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.223(b)(6)					
how the 264.223(b)(3)-(5) determinations must be made:	100	264.223(c) <b>intro</b>					
assess the source of liquids and amounts by source	100	264.223(c)(1)(i)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.223(c)(1)(ii)					
assess seriousness of leaks	100	264.223(c)(1)(iii)					
document why assessments not needed	100	264.223(c)(2)					
reserved		264.224-264.225					

MONITORING AND INSPECTION

inspection of liners and cover systems during construction and installation	IV A	264.226(a) <b>intro</b>					
		264.226(a)(1)					
		264.226(a)(2)					
inspection requirements during operation	IV A	264.226(b) <b>intro</b>					
inspect overtopping control systems	IV A	264.226(b)(1)					
sudden drops in level of contents	IV A	264.226(b)(2)					
7 erosion or deterioration in containment devices	IV A, 17 I	264.226(b)(3)					
certification of dike's structural integrity	IV A	264.226(c) <b>intro</b>					
		264.226(c)(1)					
		264.226(c)(2)					
if leak detection system required under 264.221(c) or (d), record amount of liquids removed from each sump, at least weekly	100	264.226(d)(1)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
during active life and closure period							
after final cover installed, at least monthly record the amount of liquids removed from each leak detection sump; when quarterly and semi- annual recording allowed; when monthly recording must resume	100	264.226(d)(2)					
definition of "pump operating level"	100	264.226(d)(3)					
<b>EMERGENCY REPAIRS; CONTINGENCY PLANS</b>							
conditions for removal from service	IV A	264.227(a) <b>intro</b>					
		264.227(a)(1)					
		264.227(a)(2)					
immediate action on removal from service	IV A	264.227(b) <b>intro</b>					
		264.227(b)(1)					
		264.227(b)(2)					
		264.227(b)(3)					
		264.227(b)(4)					
		264.227(b)(5)					
		264.227(b)(6)					
compliance procedure for 264.227(b) in contingency plan	IV A	264.227(c)					
conditions for restoration of service	IV A	264.227(d) <b>intro</b>					
		264.227(d)(1)					
		264.227(d)(2) <b>intro</b>					
		264.227(d)(2)(i)					
		264.227(d)(2)(ii)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
closure of inactive surface impoundments	IV A	264.227(e)					
CLOSURE AND POST-CLOSURE CARE							
closure requirements	IV A	264.228(a) <b>intro</b>					
		264.228(a)(1) <b>intro</b>					
		264.228(a)(2)(i)					
		264.228(a)(2)(ii)					
		264.228(a)(2)(iii) <b>intro</b>					
		264.228(a)(2)(iii)(A)					
		264.228(a)(2)(iii)(B)					
		264.228(a)(2)(iii)(C)					
		264.228(a)(2)(iii)(D)					
		264.228(a)(2)(iii)(E)					
8 post-closure requirements	IV A	264.228(b) <b>intro</b>					
		264.228(b)(1)					
	100	264.228(b)(2)					
	IV ,17 I, 100	264.228(b)(3)					
		264.228(b)(4)					
plans needed whenever liner requirements are not met	IV A	264.228(c)(1) <b>intro</b>					
		264.228(c)(1)(i)					
		264.228(c)(1)(ii)					
cost estimate inclusions	IV A	264.228(c)(2)					
removed	IV A,17 I	264.228(d)					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
conditions for placement of ignitable or reactive waste	*,78	264.229 <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
waste treatment to specific criteria prior to placement	IV A	264.229(a) <b>intro</b>					
		264.229(a)(1)					
		264.229(a)(2)					
waste management to prevent reaction or ignition	IV A	264.229(b)					
emergency placement	IV A	264.229(c)					
<b>SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES</b>							
prohibited co-disposal of incompatible wastes or materials unless compliance with 264.17(b)	IV A	264.230					
<b>SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027</b>							
requirements for F020-F023, F026 and F027 regarding placement in surface impoundments; special management plan; factors to be considered	14	264.231(a) <b>intro</b>					
		264.231(a)(1)					
		264.231(a)(2)					
		264.231(a)(3)					
		264.231(a)(4)					
additional requirements as determined by Regional Administrator	14	264.231(b)					
owner or operator shall manage all hazardous waste placed in surface impoundment in accordance with requirements of part 264 subpart CC	154	264.232					

**SUBPART L - WASTE PILES**

**APPLICABILITY**

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
storage or treatment facilities using waste piles	IV A	264.250(a)					
closed piles with waste in place subject to Subpart N of 264	IV A	264.250(b)					
waste piles under a structure	IV A	264.250(c) <b>intro</b>					
piles inside or under a structure; provisions for exclusion from regulation under 264.251 or Subpart F of Part 264	IV A	264.250(c)(1)					
		264.250(c)(2)					
		264.250(c)(3)					
		264.250(c)(4)					
DESIGN AND OPERATING REQUIREMENTS							
what a waste pile must have	IV A	264.251(a) <b>intro</b>					
liner design standards	IV A	264.251(a)(1) <b>intro</b>					
		264.251(a)(1)(i)					
		264.251(a)(1)(ii)					
		264.251(a)(1)(iii)					
leachate collection and removal system standards	IV A	264.251(a)(2) <b>intro</b>					
		264.251(a)(2)(i) <b>intro</b>					
		264.251(a)(2)(i)(A)					
		264.251(a)(2)(i)(B)					
		264.251(a)(2)(ii)					
exemption from 264.251(a)	IV A	264.251(b) <b>intro</b>					
exemption criteria	IV A	264.251(b)(1)					
		264.251(b)(2)					
		264.251(b)(3)					
		264.251(b)(4)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
9 waste piles that must install two or more liners and a leachate collection and removal system above and between these liners; "construction commences" defined under "existing facility"	IV A,100	264.251(c) <b>intro</b>					
liner system must include:	100	264.251(c)(1)(i) <b>intro</b>					
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.251(c)(1)(i)(A)					
composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.251(c)(1)(i)(B)					
liners must comply with 264.251(a)(1)(i)-(iii)	100	264.251(c)(1)(ii)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
leachate collection and removal system must collect and remove leachate from the waste pile during the active life and post-closure care period; Regional Administrator to specify permit conditions to ensure leachate depth over liner does not exceed 30 cm (1 ft); leachate collection and removal system must comply with 264.251(c)(3)(iii)&(iv)	100	264.251(c)(2)					
relationship between leachate collection and removal system and the leak detection system; what the leak detection system must be capable of; minimum requirements:	100	264.251(c)(3) <b>intro</b>					
bottom slope of 1 percent or more	100	264.251(c)(3)(i)					
constructed of: 1) granular drainage materials with hydraulic conductivity of $1 \times 10^{-2}$ cm/sec or more, and 12 in. (30.5 cm) or more thickness; or 2) synthetic or geonet drainage materials with $3 \times 10^{-5}$ m <sup>2</sup> /sec or more transmissivity	100	264.251(c)(3)(ii)					
construction material specifications	100	264.251(c)(3)(iii)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
designed/operated to minimize clogging during active life and post-closure care period	100	264.251(c)(3)(iv)					
specifications for sumps and liquid removal methods	100	264.251(c)(3)(v)					
collect and remove pumpable liquids in leak detection system sumps to minimize head on the bottom liner	100	264.251(c)(4)					
what must be demonstrated if leak detection system not located completely above seasonal high water table	100	264.251(c)(5)					
9 circumstances under which Regional Administrator may approve alternate design or operating practices if owner/operator can demonstrate that design/practices will:	IV A,100	264.251(d) <b>intro</b>					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.251(c), and	100	264.251(d)(1)					
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.251(d)(2)					
9 monofills granted a 264.221(e) waiver by Regional Administrator	IV A,100	264.251(e)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
9 when a replacement waste pile owner/operator is exempt from 264.251(c)	IV A,100	264.251(f) <b>intro</b>					
meets RCRA 3004(o)(1)(A)(i) and (o)(5) design standards	100	264.251(f)(1)					
no reason to believe liner is not functioning as designed	100	264.251(f)(2)					
9 run-on control system standards	IV A,100	264.251(g)					
9 run-off management system standards	IV A,100	264.251(h)					
9 collection and holding facility standards	IV A,100	264.251(i)					
9 wind dispersal control	IV A,100	264.251(j)					
9 design and operating requirements specified in permit	IV A,100	264.251(k)					
<b>ACTION LEAKAGE RATE</b>							
10,11 Regional Administrator approval of action leakage rate for waste pile units subject to 264.251(c) or (d); definition of action leakage rate; adequate safety margin	IV A,17 I, 100	264.252(a)					
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly, during active life and closure period	100	264.252(b)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
RESPONSE ACTIONS							
approved response action plan before receipt of waste for waste piles subject to 264.251(c) or (d); address actions if action leakage rate exceeded; plan must describe actions in 264.253(b)	IV A,17 I, 100	264.253(a)					
responsibilities if flow rate into leak system exceeds the action leakage rate for any sump:	100	264.253(b) <b>intro</b>					
notify Regional Administrator in writing within seven days of determination	100	264.253(b)(1)					
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.253(b)(2)					
determine location, size and cause of any leak	100	264.253(b)(3)					
determine if 1) waste receipt should cease or be curtailed, 2) waste should be removed for inspection, repairs, or controls, and 3) unit should be closed	100	264.253(b)(4)					
determine short- and long-term actions to mitigate or stop any leaks	100	264.253(b)(5)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
within 30 days after Regional Administrator notification, submit the results of 264.253(b)(3)- (5) analyses, the results of actions taken and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.253(b)(6)					
how the 264.253(b)(3),(4),&(5) determinations must be made	100	264.253(c) <b>intro</b>					
assess the source of liquids and amounts by source	100	264.253(c)(1)(i)					
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.253(c)(1)(ii)					
assess seriousness of leaks	100	264.253(c)(1)(iii)					
document why assessments not needed	100	264.253(c)(2)					
<b>MONITORING AND INSPECTION</b>							
inspections during construction or	IV A	264.254(a) <b>intro</b>					
		264.254(a)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
installation; inspections immediately after construction or installation		264.254(a)(2)					
weekly inspections during operation and inspections after storms to detect:	IV A	264.254(b) <b>intro</b>					
run-on and run-off system problems	IV A	264.254(b)(1)					
13 proper functioning of wind dispersal controls	IV A,17 I	264.254(b)(2)					
13 leachate in and proper functioning of leachate systems	IV A,17 I	264.254(b)(3)					
if leak detection system required under 264.251(c), record amount of liquids removed from each sump, at least weekly during active life and closure period	100	264.254(c)					
reserved		264.255					

SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE

conditions for placement of ignitable or reactive waste in waste piles	*,78	264.256 <b>intro</b>					
treatment requirements	IV A	264.256(a) <b>intro</b>					
		264.256(a)(1)					
		264.256(a)(2)					
waste management; protection from ignition or reaction	IV A	264.256(b)					

SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
placement in same pile prohibited unless 264.17(b) is complied with	IV A	264.257(a)					
waste separation or protection	IV A	264.257(b)					
base decontamination	IV A	264.257(c)					

CLOSURE AND POST-CLOSURE CARE

closure requirements	IV A	264.258(a)					
post-closure care if not all contaminated subsoils can be practically removed	IV A	264.258(b)					
plans needed whenever liner requirements are not met	IV A	264.258(c)(1) <b>intro</b>					
		264.258(c)(1)(i)					
		264.258(c)(1)(ii)					
cost estimates	IV A	264.258(c)(2)					

SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026 AND F027

requirements for F020-F023, F026 and F027 regarding placement in waste piles; special management plan; factors to be considered	14	264.259(a) <b>intro</b>					
		264.259(a)(1)					
		264.259(a)(2)					
		264.259(a)(3)					
		264.259(a)(4)					
additional requirements as determined by the Regional Administrator	14	264.259(b)					

SUBPART M - LAND TREATMENT

APPLICABILITY

facilities that treat or dispose of hazardous waste in land treatment units	IV A	264.270					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
TREATMENT PROGRAM							
treatment program	IV A	264.271(a) <b>intro</b>					
elements of the program specified by Regional Administrator in permit	IV A	264.271(a)(1)					
		264.271(a)(2)					
		264.271(a)(3)					
hazardous constituents specified in the permit that must be degraded, transformed or immobilized	IV A	264.271(b)					
treatment zone dimensions specified	IV A	264.271(c) <b>intro</b>					
		264.271(c)(1)					
		264.271(c)(2)					
TREATMENT DEMONSTRATION							
treatment demonstration required for each waste applied to treatment zone	IV A	264.272(a)					
acceptable evidence to make demonstration; specified in permit	IV A	264.272(b)					
field/laboratory test requirements	IV A	264.272(c) <b>intro</b>					
		264.272(c)(1) <b>intro</b>					
		264.272(c)(1)(i)					
		264.272(c)(1)(ii)					
		264.272(c)(1)(iii)					
		264.272(c)(1)(iv)					
		264.272(c)(1)(v)					
		264.272(c)(2)					
		264.272(c)(3) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
		264.272(c)(3)(i)					
		264.272(c)(3)(ii)					
		264.272(c)(3)(iii)					
		264.272(c)(3)(iv)					
		264.272(c)(3)(v)					

DESIGN AND OPERATING REQUIREMENTS

Regional Administrator will specify these requirements in permit	*	264.273					
construction, design and operation to maximize degradation, transformation, and immobilization of HW; minimum requirements specified in the permit	IV A	264.273(a) <b>intro</b>					
		264.273(a)(1)					
		264.273(a)(2)					
		264.273(a)(3)					
		264.273(a)(4)					
run-off control	IV A	264.273(b)					
run-on control	IV A	264.273(c)					
storm water run-off management system	IV A	264.273(d)					
collection and holding facilities	IV A	264.273(e)					
wind dispersal control	IV A	264.273(f)					
inspections	IV A	264.273(g) <b>intro</b>					
		264.273(g)(1)					
		264.273(g)(2)					
reserved		264.274-264.275					

FOOD-CHAIN CROPS

conditions for crops in or on treatment zone	*	264.276					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
demonstration of no health risk	IV A	264.276(a)(1) <b>intro</b>					
		264.276(a)(1)(i)					
		264.276(a)(1)(ii)					
demonstration timing	IV A	264.276(a)(2)					
required evidence for acceptable demonstration	IV A	264.276(a)(3) <b>intro</b>					
		264.276(a)(3)(i)					
		264.276(a)(3)(ii)					
permit for conducting demonstration activities	IV A	264.276(a)(4)					
requirements if waste contains cadmium	IV A	264.276(b) <b>intro</b>					
		264.276(b)(1)(i)					
		264.276(b)(1)(ii)					
		264.276(b)(1)(iii)					
		264.276(b)(1)(iv)					
		264.276(b)(2)(i)					
		264.276(b)(2)(ii)					
		264.276(b)(2)(iii)					
		264.276(b)(2)(iv)					
reserved		264.277					
<b>UNSATURATED ZONE MONITORING</b>							
owner/operator responsibilities	*	264.278 <b>intro</b>					
monitor soil and soil pore liquid for specific constituents	IV A	264.278(a) <b>intro</b>					
		264.278(a)(1)					
		264.278(a)(2)					
unsaturated zone monitoring system	IV A	264.278(b) <b>intro</b>					
		264.278(b)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
standards		264.278(b)(2)					
background value needed for each hazardous constituent	IV A	264.278(c) <b>intro</b>					
		264.278(c)(1)					
		264.278(c)(2)					
		264.278(c)(3)					
		264.278(c)(4)					
test placement, frequency and timing; how results must be expressed	IV A	264.278(d)					
sampling and analysis procedures; minimum requirements	IV A	264.278(e) <b>intro</b>					
		264.278(e)(1)					
		264.278(e)(2)					
		264.278(e)(3)					
		264.278(e)(4)					
comparison with background values to determine statistically significant change	IV A	264.278(f) <b>intro</b>					
		264.278(f)(1)					
		264.278(f)(2)					
		264.278(f)(3) <b>intro</b>					
		264.278(f)(3)(i)					
		264.278(f)(3)(ii)					
actions if significant increase occurs	IV A	264.278(g) <b>intro</b>					
		264.278(g)(1)					
		264.278(g)(2)					
requirements for demonstration that units at facility not responsible for increase	IV A	264.278(h) <b>intro</b>					
		264.278(h)(1)					
		264.278(h)(2)					
		264.278(h)(3)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
		264.278(h)(4)					
<b>RECORD KEEPING</b>							
operating record to include waste application dates and rates	IV A	264.279					
<b>CLOSURE AND POST-CLOSURE CARE</b>							
owner/operator responsibilities during closure care	IV A	264.280(a) <b>intro</b>					
		264.280(a)(1)					
		264.280(a)(2)					
		264.280(a)(3)					
		264.280(a)(4)					
		264.280(a)(5)					
		264.280(a)(6)					
		264.280(a)(7)					
		264.280(a)(8)					
closure certification	IV A	264.280(b)					
owner/operator responsibilities during post-closure care	IV A	264.280(c) <b>intro</b>					
		264.280(c)(1)					
		264.280(c)(2)					
		264.280(c)(3)					
		264.280(c)(4)					
		264.280(c)(5)					
		264.280(c)(6)					
		264.280(c)(7)					
exemption from 264.280(a)(8)&(c)	IV A	264.280(d) <b>intro</b>					
		264.280(d)(1) <b>intro</b>					
		264.280(d)(1)(i)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
		264.280(d)(1)(ii)					
		264.280(d)(2)					
		264.280(d)(3) <b>intro</b>					
		264.280(d)(3)(i)					
		264.280(d)(3)(ii)					
Subpart F exemption	IV A	264.280(e)					
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE							
conditions for applying ignitable or reactive wastes to treatment zone	*,78	264.281 <b>intro</b>					
immediate incorporation of waste into soil	IV A	264.281(a) <b>intro</b>					
		264.281(a)(1)					
		264.281(a)(2)					
protective management so no reaction or ignition	IV A	264.281(b)					
SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES							
conditions for disposal of incompatible wastes or materials	IV A	264.282					
SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026 AND F027							
requirements for land treatment of F020, F021, F022, F023, F026 and F027	14	264.283(a) <b>intro</b>					
		264.283(a)(1)					
		264.283(a)(2)					
		264.283(a)(3)					
		264.283(a)(4)					
additional requirements determined by Regional Administrator	14	264.283(b)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE

SUBPART N - LANDFILLS

APPLICABILITY

apply to hazardous waste disposal facilities using landfills	IV A	264.300					
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DESIGN AND OPERATING REQUIREMENTS

landfill not covered by 264.301(c) or 265.301(a) must have liner system	*,17 H	264.301(a) <b>intro</b>					
liner standards	IV A	264.301(a)(1) <b>intro</b>					
		264.301(a)(1)(i)					
		264.301(a)(1)(ii)					
		264.301(a)(1)(iii)					
leachate collection and removal system standards	IV A	264.301(a)(2) <b>intro</b>					
		264.301(a)(2)(i) <b>intro</b>					
		264.301(a)(2)(i)(A)					
		264.301(a)(2)(i)(B)					
		264.301(a)(2)(ii)					
exemption; factors Regional Administrator will consider	IV A	264.301(b) <b>intro</b>					
		264.301(b)(1)					
		264.301(b)(2)					
		264.301(b)(3)					
		264.301(b)(4)					
14 landfills that must install two or more liners and a leachate collection and removal system above and between such liners; "construction	17 H,77, 100	264.301(c) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
commences" defined under "existing facility"							
the liner system must include:	100	264.301(c)(1)(i) <b>intro</b>					
top liner designed and constructed to prevent migration of hazardous constituents into liner for specified period	100	264.301(c)(1)(i)(A)					
composite bottom liner consisting of at least two components; upper component to prevent migration of hazardous constituents into this component during specified period; lower component designed and constructed to minimize such migration if upper component is breached; specified thickness and hydraulic conductivity	100	264.301(c)(1)(i)(B)					
liners must comply with 264.301(a)(1)(i)-(iii)	100	264.301(c)(1)(ii)					
15 leachate collection and removal system must collect and remove leachate from the landfill during the active life and post-closure care period; Regional Administrator to specify permit conditions to ensure leachate depth over liner does not exceed 30 cm (1 ft); leachate collection and removal system must comply with 264.301(c)(3)(iii)&(iv)	100	264.301(c)(2)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
relationship between leachate collection and removal system and the leak detection system; what the leak detection system must be capable of; minimum requirements:	100	264.301(c)(3) <b>intro</b>					
bottom slope of 1 percent or more	100	264.301(c)(3)(i)					
constructed of: 1) granular drainage materials with hydraulic conductivity of $1 \times 10^{-2}$ cm/sec or more, and 12 in. (30.5 cm) or more thickness; or 2) synthetic or geonet drainage materials with $3 \times 10^{-5}$ m <sup>2</sup> /sec or more transmissivity	100	264.301(c)(3)(ii)					
construction material specifications	100	264.301(c)(3)(iii)					
designed/operated to minimize clogging during active life and post-closure care period	100	264.301(c)(3)(iv)					
specifications for sumps and liquid removal methods	100	264.301(c)(3)(v)					
collect and remove pumpable liquids in leak detection system sumps to minimize head on the bottom liner	100	264.301(c)(4)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
what must be demonstrated if leak detection system not located completely above seasonal high water table	100	264.301(c)(5)					
†,14 Regional Administrator may approve alternate design or operating practices if owner/operator can demonstrate that design/practices will:	17 H,100	264.301(d) <b>intro</b>					
prevent hazardous constituent migration into ground or surface water as effectively as system specified in 264.301(c), and	100	264.301(d)(1)					
allow detection of hazardous constituent leaks through top liner at least as effectively	100	264.301(d)(2)					

†,4,14 Waiver from Double Liner Requirement

monofills—criteria for waiving double liner requirements	17 H	264.301(e) <b>intro</b>					
	17 H,74	264.301(e)(1) <b>intro</b>					
	17 H	264.301(e)(2)(i)(A)					
		264.301(e)(2)(i)(B)					
		264.301(e)(2)(i)(C)					
		264.301(e)(2)(ii)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

	FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
					EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
14	replacement landfill owner/operator is exempt from 264.301(c)	100	264.301(f) <b>intro</b>					
	meets RCRA 3004(o)(1)(A)(i) and (o)(5) design standards	100	264.301(f)(1)					
	no reason to believe liner is not functioning as designed	100	264.301(f)(2)					
14	run-on control system	IV A, 17 H, 100	264.301(g)					
14	run-off management system	IV A, 17 H, 100	264.301(h)					
14, 19	collection and holding facilities management	IV A, 17 H, 100	264.301(i)					
14	wind dispersal control	IV A, 17 H, 100	264.301(j)					
14	permit specification of design and operating practices	IV A, 17 H, 100	264.301(k)					
14	liner and leachate requirements for landfills in Alabama	17 H, 100	264.301(l)					
<b>ACTION LEAKAGE RATE</b>								
16, 17	Regional Administrator approval of action leakage rate for units subject to 264.301(c) or (d); definition of action leakage rate; adequate safety margin	IV A, 17 I, 100	264.302(a)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
how to determine if action leakage rate has been exceeded; unless another calculation approved, average daily flow rate calculated weekly during active life and closure period, and monthly during post-closure period	100	264.302(b)					
<b>MONITORING AND INSPECTION</b>							
inspection during and immediately after construction or installation	IV A	264.303(a) <b>intro</b>					
		264.303(a)(1)					
		264.303(a)(2)					
inspections during operation to determine:	IV A	264.303(b) <b>intro</b>					
run-on and run-off control problems	IV A,17 I	264.303(b)(1)					
18 proper functioning of wind dispersal control system	IV A,17 I	264.303(b)(2)					
18 presence of leachate in and proper functioning of leachate collection and removal systems	IV A,17 I	264.303(b)(3)					
if leak detection system required under 264.301(c) or (d), record amount of liquids removed from each sump at least weekly during the active life and closure period	100	264.303(c)(1)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
after final cover installed, at least monthly record the amount of liquids removed from each leak detection sump; when quarterly and semi-annual recording allowed; when monthly recording must resume	100	264.303(c)(2)					
definition of "pump operating level"	100	264.303(c)(3)					
<b>RESPONSE ACTIONS</b>							
approved response action plan before receipt of waste for landfills subject to 264.301(c) or (d); address actions if action leakage rate exceeded; at a minimum, plan must describe actions in 264.304(b)	100	264.304(a)					
responsibilities if flow rate into leak detection system exceeds the action leakage rate for any sump:	100	264.304(b) <b>intro</b>					
notify Regional Administrator in writing within seven days of determination	100	264.304(b)(1)					
preliminary assessment to Regional Administrator within 14 days of determination; what assessment must address	100	264.304(b)(2)					
determine location, size and cause of any leak	100	264.304(b)(3)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
determine 1) whether waste receipt should cease or be curtailed, 2) whether waste should be removed for inspection, repairs, or controls, and 3) whether unit should be closed	100	264.304(b)(4)					
determine short- and longer-term actions to mitigate or stop any leaks	100	264.304(b)(5)					
within 30 days after Regional Administrator notification, submit the results of 264.304(b)(3)-(5) analyses, the results of actions taken and actions planned; thereafter, as long as flow rate exceeds action leakage rate, monthly report to Regional Administrator summarizing results of remedial actions taken and actions planned	100	264.304(b)(6)					
how the 264.304(b)(3)-(5) determinations must be made	100	264.304(c) <b>intro</b>					
assess the source of liquids and amounts by source	100	264.304(c)(1)(i)					
conduct analyses of liquids in leak detection system to identify sources of liquids and location of leaks, and the hazard and mobility of the liquid	100	264.304(c)(1)(ii)					
assess seriousness of	100	264.304(c)(1)(iii)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
leaks							
document why assessments not needed	100	264.304(c)(2)					
reserved		264.305-264.308					

**SURVEYING AND RECORD KEEPING**

items which must be in operating record	*	264.309 <b>intro</b>					
location and dimensions of landfill to be shown on maps	IV A	264.309(a)					
contents of each cell and location of each hazardous waste type in each cell	IV A	264.309(b)					

**CLOSURE AND POST-CLOSURE CARE**

cover requirements at final closure	IV A	264.310(a) <b>intro</b>					
		264.310(a)(1)					
		264.310(a)(2)					
		264.310(a)(3)					
		264.310(a)(4)					
		264.310(a)(5)					
post-closure requirements	IV A	264.310(b) <b>intro</b>					
final cover requirements	IV I	264.310(b)(1)					
19 leachate system requirements	IV A, 17 I	264.310(b)(2)					
19 maintain and monitor leak detection system according to 264.301(c)(3)(iv)&(4) and 264.303(c); comply with other applicable Part 264 leak detection requirements	100	264.310(b)(3)					
19 ground-water monitoring system requirements	IV A, 17 I,	264.310(b)(4)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
	100						
19 run-on and run-off control requirements	IV A,17 I, 100	264.310(b)(5)					
19 protect and maintain surveyed benchmarks	IV A,17 I, 100	264.310(b)(6)					
removed	IV A,17 I	264.310(c)					
reserved		264.311					

**SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE**

placement prohibited unless waste and landfill meet Part 268 requirements and waste is no longer ignitable or reactive and 264.17(b) is complied with	IV A,78	264.312(a) <b>intro</b>					
	IV A	264.312(a)(1)					
		264.312(a)(2)					
containerized wastes	IV A,78	264.312(b)					

**SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES**

conditions for disposal in landfill	IV A	264.313					
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**SPECIAL REQUIREMENTS FOR BULK AND CONTAINERIZED LIQUIDS**

bulk liquid disposal prior to May 8, 1985 only if:	IV A,17 F	264.314(a)					
liner and leachate system requirements	IV A	264.314(a)(1)					
liquids must be stabilized	IV A,118	264.314(a)(2)					
20 May 8, 1985 free liquids ban	17 F,118	264.314(b)					
paint filter test	16,126	264.314(c)					
20 conditions for placement of containers holding free	IV A,†17 F	264.314(d) <b>intro</b>					
		264.314(d)(1) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
liquids in a landfill		264.314(d)(1)(i)					
	IV A,†17 F, 118	264.314(d)(1)(ii)					
	IV A, †17 F	264.314(d)(1)(iii)					
		264.314(d)(2)					
		264.314(d)(3)					
		264.314(d)(4)					
21 sorbents used to treat free liquids disposed in landfills must be nonbiodegradable; definition of nonbiodegradable sorbents	118	264.314(e) <b>intro</b>					
21 nonbiodegradable sorbents	118	264.314(e)(1) <b>intro</b>					
		264.314(e)(1)(i)					
		264.314(e)(1)(ii)					
		264.314(e)(1)(iii)					
21 tests for nonbiodegradable sorbents	118	264.314(e)(2) <b>intro</b>					
ASTM Method G21-70 (1984a)	118	264.314(e)(2)(i)					
ASTM Method G22-76 (1984b)	118,†145	264.314(e)(2)(ii)					
† OECD test 301B	145	264.314(e)(2)(iii)					
21 nonhazardous liquids ban effective November 8, 1985; what must be demonstrated to Regional Administrator for exemption	17 F, 118	264.314(f) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

	FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
					EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
†,21	only reasonable available alternative	17 F,118	264.314(f)(1)					
†,21	not a risk of contaminating underground source of drinking water	17 F,118	264.314(f)(2)					

**SPECIAL REQUIREMENTS FOR CONTAINERS**

	requirements if containers not very small	*	264.315 <b>intro</b>					
	at least 90% full	IV A	264.315(a)					
	crushed, shredded or reduced in volume before burial	IV A	264.315(b)					

**DISPOSAL OF SMALL CONTAINERS OF HAZARDOUS WASTE IN OVERPACKED DRUMS (LAB PACKS)**

	conditions for placement of overpacked drums in landfills	*	264.316 <b>intro</b>					
	inside container requirements including DOT requirements	IV A	264.316(a)					
	overpacking-DOT requirements; outer container	IV A,118	264.316(b)					
	sorbent material	IV A,118	264.316(c)					
	incompatible wastes	IV A	264.316(d)					
	reactive wastes	IV A	264.316(e)					
22	disposal in compliance with Part 268; fiber drums allowed for incineration of lab packs	78	264.316(f)					

**SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027**

	requirements for	14	264.317(a) <b>intro</b>					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
placement of F020, F021, F022, F023, F026 and F027 in a landfill		264.317(a)(1)					
		264.317(a)(2)					
		264.317(a)(3)					
		264.317(a)(4)					
additional requirements that Regional Administrator may require	14	264.317(b)					

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	IV A,13,85	264.340(a) <b>intro</b>				
23	removed	13,85	264.340(a)(1)				
23	removed	13,19,85	264.340(a)(2)				
†,24, 25	integration of the MACT standards	182	264.340(b) intro				
†,24, 25	except as provided by 264.340(b)(2), (3), <b>and</b> <b>(b)(4)</b> part 264 standards no longer apply when compliance with MACT requirements of part 63, subpart EEE is demonstrated by conducting performance test and submitting NOC under 63.1207(j) & 63.1210(b); part 264 conditions continue until removed from permit or permit is terminated or revoked, unless permit	182, 188, <b>197</b>	264.340(b)(1)				

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
provides otherwise							
†,24, 25 MACT standards do not replace 264.351 closure requirements or applicable requirements of 264, subparts A-H, BB & CC	182	264.340(b)(2)					
264.343(c) remains in effect for incinerators that elect to comply with alternative standard	188	264.340(b)(3)					
† when complying with 270.235(a)(1)(i) to minimize emissions of toxic compounds, the following remain in effect:	197	264.340(b)(4) intro					
† 264.345(a) requiring incinerators to operate in accordance with permit; and	197	264.340(b)(4)(i)					
† 264.345(c) requiring emission standards and operating requirements compliance during startup and shutdown if hazardous waste in combustion chambers, except for particular hazardous wastes	197	264.340(b)(4)(ii)					
24,25 exemptions	IV A, †182	264.340(c) intro					
		264.340(c)(1) intro					
		264.340(c)(1)(i)					
		264.340(c)(1)(ii)					
		264.340(c)(1)(iii)					
		264.340(c)(1)(iv)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
		264.340(c)(2)					
24,25 exemption for insignificant concentrations	IV A, †182	264.340(d)					
24,25 trial burns	*, † 182	264.340(e)					

WASTE ANALYSIS

in trial burn plan to provide required information	IV A	264.341(a)					
waste analysis during normal operation	IV A	264.341(b)					

PRINCIPAL ORGANIC HAZARDOUS CONSTITUENTS (POHCs)

must be treated to 264.343 performance requirements	IV A	264.342(a)					
basis for selection in permit	IV A	264.342(b)(1)					
trial POHCs designated in trial burns	IV A	264.342(b)(2)					

PERFORMANCE STANDARDS

standards to be met for incinerators	*	264.343					
D.R.E. for hazardous waste	IV A, 14	264.343(a)(1)					
D.R.E. for dioxins	14	264.343(a)(2)					
HCl emission control	IV A	264.343(b)					
particulate emission control	IV A	264.343(c)					
permit enforcement	*	264.343(d)					

HAZARDOUS WASTE INCINERATOR PERMITS

	IV A	264.344(a) intro					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
exceptions to burning only those wastes and using only those conditions specified in permit		264.344(a)(1)					
		264.344(a)(2)					
permit modifications	IV A	264.344(b)					
permits for new incinerators	IV A	264.344(c) <b>intro</b>					
		264.344(c)(1)					
		264.344(c)(2)					
		264.344(c)(3)					
		264.344(c)(4)					
OPERATING REQUIREMENTS							
operating conditions specified in the permit; specified on a case-by- case basis	IV A	264.345(a)					
operating requirements specify composition of waste feed; conditions specified	IV A	264.345(b) <b>intro</b>					
		264.345(b)(1)					
		264.345(b)(2)					
		264.345(b)(3)					
		264.345(b)(4)					
		264.345(b)(5)					
		264.345(b)(6)					
start-up and shut-down conditions	IV A	264.345(c)					
fugitive emission control	IV A	264.345(d) <b>intro</b>					
		264.345(d)(1)					
		264.345(d)(2)					
		264.345(d)(3)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
automatic cut-off of waste feed	IV A	264.345(e)					
when operations must stop	IV A	264.345(f)					
reserved		264.346					

**MONITORING AND INSPECTIONS**

required monitoring while incinerating hazardous waste	IV A	264.347(a) <b>intro</b>					
		264.347(a)(1)					
		264.347(a)(2)					
		264.347(a)(3)					
daily inspections of incinerator and associated equipment	IV A	264.347(b)					
weekly inspections of emergency waste feed cut-off system and associated alarms	IV A	264.347(c)					
monitoring and inspection data in 264.73 operating log	IV A	264.347(d)					
reserved		264.348-264.350					

**CLOSURE**

remove all hazardous wastes and residues	IV A	264.351					
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**25 SUBPART S - SPECIAL PROVISIONS FOR CLEANUP**

**APPLICABILITY OF CORRECTIVE ACTION MANAGEMENT UNIT (CAMU) REGULATIONS**

except as provided in 264.550(b) CAMU's are subject to 264.552	196	264.550(a)					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>CAMU's approved before April 22, 2002, or that have submitted substantially complete applications by November 20, 2000, are subject to 264.551 for grandfathered CAMUs; such CAMUs will not be subject to 264.552, so long as they remain within the scope of the approved CAMU</b>	<b>196</b>	<b>264.550(b)</b>					

**26 GRANDFATHERED CORRECTIVE ACTION MANAGEMENT UNITS (CAMU)**

	Regional Administrator may designate one or more areas at a facility as CAMUs for purpose of implementing remedies under 264.101 or RCRA 3008(h) or to implement remedies at a facility that is not subject to 264.101; <b>definition of CAMU</b>	<b>†121, †175, 196</b>	<b>264.551(a) intro</b>				
27	placement of remediation wastes in CAMU does not constitute land disposal	<b>†121, †175, 196</b>	<b>264.551(a)(1)</b>				
28	consolidation or placement of remediation wastes in CAMU does not constitute creation of a unit subject to minimum technology requirements	<b>†121, †175, 196</b>	<b>264.551(a)(2)</b>				

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Regional Administrator may designate a regulated unit as a CAMU or include a regulated unit in a CAMU; criteria	†121, 196	264.551(b)(1) intro					
	†121, 196	264.551(b)(1)(i)					
	†121, 196	264.551(b)(1)(ii)					
Subparts F, G, and H and unit-specific Parts 264 or 265 requirements that applied to regulated unit continue to apply to that portion of CAMU after incorporation	†121, 196	264.551(b)(2)					
criteria by which Regional Administrator shall designate CAMU:	†121, 196	264.551(c) intro					
CAMU shall facilitate implementation of reliable, effective, protective, and cost-effective remedies	†121, 196	264.551(c)(1)					
associated waste management activities shall not create unacceptable risks to humans or the environment	†121, 196	264.551(c)(2)					
CAMU shall include uncontaminated areas only if including such areas for purpose of managing remediation waste is more protective than managing such wastes at contaminated areas	†121, 196	264.551(c)(3)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
CAMU areas where waste will remain after closure shall be managed and contained to minimize future releases, to the extent practicable	†121, 196	264.551(c)(4)					
CAMU shall expedite remedial activity implementation when appropriate and practical	†121, 196	264.551(c)(5)					
CAMU shall enable use of treatment technologies, when appropriate, to enhance long-term effectiveness of remedial actions	†121, 196	264.551(c)(6)					
CAMU shall, to the extent practicable, minimize land area where wastes will remain after closure	†121, 196	264.551(c)(7)					
owner/operator shall provide sufficient information to enable Regional Administrator to designate CAMU in accordance with 264.552	†121, 196	264.551(d)					
Regional Administrator shall specify CAMU requirements in permit or order, including:	†121, 196	264.551(e) intro					
areal configuration of CAMU	†121, 196	264.551(e)(1)					
requirements for remediation waste management, including applicable design, operation and closure requirements	†121, 196	264.551(e)(2)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
requirements for ground water monitoring sufficient to:	†121, 196	264.551(e)(3) <b>intro</b>					
continue to detect and characterize existing releases from sources within CAMU	†121, 196	264.551(e)(3)(i)					
detect and characterize releases from areas of the CAMU in which wastes will remain after closure	†121, 196	264.551(e)(3)(ii)					
closure and post-closure requirements:	†121, 196	264.551(e)(4) <b>intro</b>					
CAMU closure shall:	†121, 196	264.551(e)(4)(i) <b>intro</b>					
minimize need for further maintenance	†121, 196	264.551(e)(4)(i)(A)					
control, minimize, or eliminate post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to ground, surface waters, or atmosphere	†121, 196	264.551(e)(4)(i)(B)					
requirements for closure of CAMU shall include, as appropriate and deemed necessary by the Regional Administrator:	†121, 196	264.551(e)(4)(ii) <b>intro</b>					
excavation, removal, treatment or containment of wastes	†121, 196	264.551(e)(4)(ii)(A)					
capping of areas in which wastes will remain after CAMU closure	†121, 196	264.551(e)(4)(ii)(B)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
removal and decontamination of equipment, devices, and structures used in remediation waste management activities within CAMU	†121, 196	264.551(e)(4)(ii)(C)					
in establishing specific 264.552(e) closure requirements, Regional Administrator shall consider:	†121, 196	264.551(e)(4)(iii) <b>intro</b>					
CAMU characteristics	†121, 196	264.551(e)(4)(iii)(A)					
volume of wastes which remain in place after closure	†121, 196	264.551(e)(4)(iii)(B)					
potential for releases from CAMU	†121, 196	264.551(e)(4)(iii)(C)					
physical and chemical characteristics of the waste	†121, 196	264.551(e)(4)(iii)(D)					
28 hydrogeological and other relevant environmental conditions which may influence migration of potential or actual releases	†121, 196	264.551(e)(4)(iii)(E)					
potential for exposure of human and environmental receptors if releases occur	†121, 196	264.551(e)(4)(iii)(F)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
post-closure requirements as necessary to protect human health and the environment; for areas where wastes will remain, monitoring and maintenance activities and frequency	†121, 196	264.551(e)(4)(iv)					
Regional Administrator shall document rationale for CAMU designation; make documentation available to public	†121, 196	264.551(f)					
incorporation of CAMU into existing permit approved by Regional Administrator under 270.41 or 270.42 procedures	†121, 196	264.551(g)					
CAMU designation does not change EPA's existing authority to address clean-up levels, media-specific points of compliance, or other remedy selection decisions	†121, 196	264.551(h)					

**29 CORRECTIVE ACTION MANAGEMENT UNITS (CAMU)**

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>Regional Administrator (RA) may designate an area at facility as CAMU for purpose of implementing remedies under 264.101 or RCRA 3008(h) or to implement remedies at a facility not subject to 264.101; meaning of CAMU; CAMU must be located within contiguous property under owner/operator control where wastes originated; one or more CAMUs may be designated at facility</b>	196	264.552(a) intro					
<b><i>CAMU-eligible waste means:</i></b>	196	264.552(a)(1) intro					
<b>all solid &amp; hazardous wastes, and all media &amp; debris, managed for implementing cleanup; as-generated wastes from ongoing industrial operations at a site are not CAMU-eligible wastes</b>	196	264.552(a)(1)(i)					
<b>wastes that otherwise meet 264.552(a)(1)(i) description are not "CAMU-Eligible Wastes" where:</b>	196	264.552(a)(1)(ii) intro					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
they are hazardous wastes found during cleanup in intact or substantially intact containers, tanks, or other non-land-based above ground units, unless wastes are first placed in these units as part of cleanup, or containers or tanks are excavated during cleanup; or	196	264.552(a)(1)(ii) (A)					
RA exercises discretion in 264.552(a)(2) to prohibit management of wastes in a CAMU	196	264.552(a)(1)(ii) (B)					
notwithstanding 264.552(a)(1)(i), as-generated non-hazardous waste may be placed in a CAMU when used to facilitate treatment or performance of CAMU	196	264.552(a)(1)(iii)					
RA may prohibit waste placement in a CAMU if wastes not managed in compliance with applicable part 268 or 265 requirements, or non-compliance with other RCRA requirements contributed to a release	196	264.552(a)(2)					
liquids prohibition	196	264.552(a)(3) intro					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
placement of bulk or noncontainerized liquid hazardous waste or free liquids contained in hazardous waste is prohibited in any CAMU except where placement facilitates cleanup remedy	196	264.552(a)(3)(i)					
264.314(d) requirements for placement of containers holding free liquids in landfills apply to CAMU except where placement facilitates cleanup remedy	196	264.552(a)(3)(ii)					
placement of nonhazardous liquid waste in CAMU is prohibited unless it facilitates cleanup remedy or 264.314(f) demonstration is made	196	264.552(a)(3)(iii)					
absence or presence of free liquids must be determined in accordance with 264.314(c); sorbents used to treat free liquids must meet 264.314(e)	196	264.552(a)(3)(iv)					
placement of CAMU-eligible wastes into or within CAMU is not land disposal	196	264.552(a)(4)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>consolidation or placement of CAMU-eligible wastes into or within CAMU is not creation of a unit subject to minimum technology requirements</b>	<b>196</b>	<b>264.552(a)(5)</b>					
<b>RA may designate a regulated unit as a CAMU, or incorporate a regulated unit into a CAMU, if:</b>	<b>196</b>	<b>264.552(b)(1) intro</b>					
<b>regulated unit is closed or closing under 264.113 or 265.113; and</b>	<b>196</b>	<b>264.552(b)(1)(i)</b>					
<b>inclusion will enhance effective, protective &amp; reliable remedial actions</b>	<b>196</b>	<b>264.552(b)(1)(ii)</b>					
<b>subpart F, G &amp; H and the unit-specific requirements of 264/265 that applied to regulated unit will continue to apply to that portion of the CAMU after incorporation into the CAMU</b>	<b>196</b>	<b>264.552(b)(2)</b>					
<b>only in accordance with 264.552(f) shall RA designate a CAMU to be used for storage and/or treatment; all other CAMUs designated in accordance with:</b>	<b>196</b>	<b>264.552(c) intro</b>					
<b>CAMU shall facilitate</b>	<b>196</b>	<b>264.552(c)(1)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>effective, protective, reliable &amp; cost-effective remedies;</b>							
<b>CAMU waste management activities shall not create unacceptable risks from exposure to hazardous wastes or constituents;</b>	<b>196</b>	<b>264.552(c)(2)</b>					
<b>CAMU includes uncontaminated areas of facility, only if including such areas for managing CAMU- eligible waste is more protective than management of such wastes at contaminated areas of facility;</b>	<b>196</b>	<b>264.552(c)(3)</b>					
<b>areas where wastes remain in place after CAMU closure, shall be managed to minimize future releases;</b>	<b>196</b>	<b>264.552(c)(4)</b>					
<b>CAMU expedites timing of remedial activity implementation;</b>	<b>196</b>	<b>264.552(c)(5)</b>					
<b>CAMU enables use of treatment technologies to enhance long-term remedial action effectiveness by reducing toxicity, mobility or volume of wastes that remain after closure; and</b>	<b>196</b>	<b>264.552(c)(6)</b>					
<b>CAMU minimizes land area upon which wastes will remain after closure</b>	<b>196</b>	<b>264.552(c)(7)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>owner/operator to provide sufficient information to enable RA to designate CAMU; information must include:</b>	<b>196</b>	<b>264.552(d) intro</b>					
<b>origin of waste and how managed;</b>	<b>196</b>	<b>264.552(d)(1)</b>					
<b>whether waste was listed or identified as hazardous at time of disposal and/or release; and</b>	<b>196</b>	<b>264.552(d)(2)</b>					
<b>whether disposal and/or release occurred before or after LDRs were in effect for the listing or characteristic</b>	<b>196</b>	<b>264.552(d)(3)</b>					
<b>RA shall specify, in a permit or order CAMU requirements to include:</b>	<b>196</b>	<b>264.552(e) intro</b>					
<b>areal configuration</b>	<b>196</b>	<b>264.552(e)(1)</b>					
<b>except as 264.552(g) provides, applicable design, operation, treatment &amp; closure requirements</b>	<b>196</b>	<b>264.552(e)(2)</b>					
<b>except as 264.552(g) provides, minimum design requirements:</b>	<b>196</b>	<b>264.552(e)(3) intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
except 264.552(e)(3)(ii) approved alternate, CAMUs consisting of new, replacement or laterally expanded units must include composite liner & leachate collection system; meaning of <i>composite liner</i> ; construction of upper component; thickness of HDPE; installation of FML;	196	264.552(e)(3)(i)					
alternate requirements may be approved if:	196	264.552(e)(3)(ii) intro					
RA finds alternate design & operating practices, together with location, will prevent migration into ground or surface water at least as effectively as 264.552 (e)(3)(i) systems; or	196	264.552(e)(3)(ii)(A)					
CAMU to be established in area with existing significant contamination, and RA finds alternative design would prevent migration that exceeds long-term remedial goals	196	264.552(e)(3)(ii)(B)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>minimum treatment requirements; unless in CAMU treatment/storage only under 264.552(f), CAMU eligible waste that absent 264.552 would be subject to 268 Treatment Standards and the RA determines waste contains principal hazardous constituents must be treated to 264.052(e)(4)(iii) standards</b>	<b>196</b>	<b>264.552(e)(4) intro</b>					
<b>principal hazardous constituents are those that pose a risk substantially higher than cleanup levels or goals at site</b>	<b>196</b>	<b>264.552(e)(4)(i) intro</b>					
<b>principal hazardous constituents (PHCs):</b>	<b>196</b>	<b>264.552(e)(4)(i)(A) intro</b>					
		<b>264.552(e)(4)(i)(A)(1)</b>					
		<b>264.552(e)(4)(i)(A)(2)</b>					
<b>PHCs can also be designated when risks posed by potential migration to ground water are substantially higher than cleanup levels or goals; factors for designation</b>	<b>196</b>	<b>264.552(e)(4)(i)(B)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>RA may designate other constituents as PHCs if determined to pose a risk substantially higher than cleanup levels or goals at site</b>	<b>196</b>	<b>264.552(e)(4)(i)(C)</b>					
<b>in determining PHCs, the RA must consider all constituents subject to 268 treatment standards</b>	<b>196</b>	<b>264.552(e)(4)(ii)</b>					
<b>waste determined to contain PHCs must meet treatment standards determined in accordance with 264.552(e)(4)(iv) or (v)</b>	<b>196</b>	<b>264.552(e)(4)(iii)</b>					
<b>treatment standards for wastes placed in CAMUs</b>	<b>196</b>	<b>264.552(e)(4)(iv) intro</b>					
<b>non-metals must achieve 90% reduction in PHC concentrations</b>	<b>196</b>	<b>264.552(e)(4)(iv) (A)</b>					
<b>metals must achieve 90% reduction in PHC concentrations or in total constituent concentrations</b>	<b>196</b>	<b>264.552(e)(4)(iv) (B)</b>					
<b>when 90% reduction in PHC concentrations result in a concentration less than 10 times the UTS, treatment is not required; UTS are identified in 268.48</b>	<b>196</b>	<b>264.552(e)(4)(iv) (C)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
wastes exhibiting ignitability, corrosivity or reactivity must also be treated to eliminate characteristic	196	264.552(e)(4)(iv) (D)					
debris must be treated in accordance with 268.45, or to 264.552(e)(4)(iv) (A)-(D) or (e)(4)(v) levels	196	264.552(e)(4)(iv) (E)					
alternatives to TCLP; for metal bearing wastes, RA may specify a test other than TCLP to measure treatment effectiveness	196	264.552(e)(4)(iv)(F)					
RA may adjust treatment standards based on following; adjusted level must be protective of human health and environment:	196	264.552(e)(4)(v) intro					
technical impracticability of 264.552(e)(4)(iv);	196	264.552(e)(4)(v)(A)					
264.552(e)(4)(iv) would result in PHC concentrations significantly above or below cleanup standards;	196	264.552(e)(4)(v)(B)					
affected local community views of 264.552(e)(4)(iv) methods;	196	264.552(e)(4)(v)(C)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>short-term risks of method necessary to achieve 264.552(e)(4)(iv);</b>	<b>196</b>	<b>264.552(e)(4)(v)(D)</b>					
<b>long-term protection of CAMU &amp; engineering controls</b>	<b>196</b>	<b>264.552(e)(4)(v)(E) intro</b>					
		<b>264.552(e)(4)(v) (E)(1)</b>					
		<b>264.552(e)(4)(v) (E)(2)</b>					
		<b>264.552(e)(4)(v) (E)(3)</b>					
		<b>264.552(e)(4)(v) (E)(4)</b>					
		<b>264.552(e)(4)(v) (E)(5)</b>					
<b>treatment required must be completed prior to, or within reasonable time after, placement in CAMU</b>	<b>196</b>	<b>264.552(e)(4)(vi)</b>					
<b>RA may specify a PHC subset as analytical surrogates for determining if treatment standards are met for other PHCs; specification based on difficulty of treatment</b>	<b>196</b>	<b>264.552(e)(4)(vii)</b>					
<b>ground water monitoring &amp; corrective action requirements sufficient to:</b>	<b>196</b>	<b>264.552(e)(5) intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>detect &amp; characterize existing releases in ground water from CAMU; and</b>	<b>196</b>	<b>264.552(e)(5)(i)</b>					
<b>detect &amp; characterize releases to ground water from CAMU when wastes remain after closure; and</b>	<b>196</b>	<b>264.552(e)(5)(ii)</b>					
<b>require RA notification &amp; corrective action for releases to ground water from CAMU</b>	<b>196</b>	<b>264.552(e)(5)(iii)</b>					
<b>except as 264.552(d) provides, closure &amp; post-closure requirements:</b>	<b>196</b>	<b>264.552(e)(6) intro</b>					
<b>closure of CAMU shall:</b>	<b>196</b>	<b>264.552(e)(6)(i) intro</b>					
<b>minimize further maintenance; and</b>	<b>196</b>	<b>264.552(e)(6)(i)(A)</b>					
<b>control, minimize or eliminate post-closure escape of hazardous wastes to ground, surface waters or atmosphere</b>	<b>196</b>	<b>264.552(e)(6)(i)(B)</b>					
<b>requirements for CAMU closure shall include:</b>	<b>196</b>	<b>264.552(e)(6)(ii) intro</b>					
<b>waste excavation, removal, treatment or containment requirements; and</b>	<b>196</b>	<b>264.552(e)(6)(ii)(A)</b>					
<b>equipment, devices &amp; structures removal and decontamination</b>	<b>196</b>	<b>264.552(e)(6)(ii)(B)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>requirements</b>							
<b>in establishing 264.552(e) closure requirements, the RA shall consider:</b>	<b>196</b>	<b>264.552(e)(6)(iii) intro</b>					
<b>CAMU characteristics;</b>	<b>196</b>	<b>264.552(e)(6)(iii) (A)</b>					
<b>volume of wastes remaining after closure;</b>	<b>196</b>	<b>264.552(e)(6)(iii) (B)</b>					
<b>potential for releases;</b>	<b>196</b>	<b>264.552(e)(6)(iii) (C)</b>					
<b>physical &amp; chemical characteristics of waste;</b>	<b>196</b>	<b>264.552(e)(6)(iii) (D)</b>					
<b>environmental conditions which may influence migration of any potential or actual releases; and</b>	<b>196</b>	<b>264.552(e)(6)(iii) (E)</b>					
<b>exposure potential from releases</b>	<b>196</b>	<b>264.552(e)(6)(iii) (F)</b>					
<b>cap requirements:</b>	<b>196</b>	<b>264.552(e)(6)(iv) intro</b>					
<b>at final closure in areas where wastes will remain, owner/operator must cover CAMU with cover that meets specified performance criteria</b>	<b>196</b>	<b>264.552(e)(6)(iv) (A) intro</b>					
		<b>264.552(e)(6)(iv) (A)(1)</b>					
		<b>264.552(e)(6)(iv) (A)(2)</b>					
		<b>264.552(e)(6)(iv) (A)(3)</b>					
		<b>264.552(e)(6)(iv) (A)(4)</b>					
		<b>264.552(e)(6)(iv) (A)(5)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>RA may determine that 264.552(e)(6)(iv)(A) modifications are needed to facilitate treatment or performance</b>	<b>196</b>	<b>264.552(e)(6)(iv) (B)</b>					
<b>post-closure requirements to protect human health &amp; environment to include monitoring &amp; maintenance; frequency to ensure integrity of cap, final cover or other containment system</b>	<b>196</b>	<b>264.552(e)(6)(v)</b>					
<b>CAMUs used only for storage and/or treatment will not have wastes remaining after closure; such CAMUs designated using all 264.552 requirements, with following exceptions</b>	<b>196</b>	<b>264.552(f) intro</b>					
<b>qualified CAMUs that operate within 264.554(d)(1)(iii), (h) &amp; (i) time limits are subject to specified staging pile requirements in lieu of 264.552(c) &amp; (e)(3)-(6)</b>	<b>196</b>	<b>264.552(f)(1)</b>					
<b>qualified CAMUs that do not operate within 264.554(d)(1)(iii), (h) &amp; (i) time limits:</b>	<b>196</b>	<b>264.552(f)(2) intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>must operate with a time limit established by RA, no longer than necessary to achieve timely remedy, and</b>	<b>196</b>	<b>264.552(f)(2)(i)</b>					
<b>are subject to specified staging pile requirements in lieu of 264.552(c) &amp; (e)(4) &amp; (6)</b>	<b>196</b>	<b>264.552(f)(2)(ii)</b>					
<b>CAMUs with wastes at or below remedial levels or goals do not have to comply with liner, cap, ground water monitoring or design standards</b>	<b>196</b>	<b>264.552(g)</b>					
<b>RA shall provide public notice &amp; opportunity for comment before designating a CAMU; notice shall include rationale for any proposed adjustments</b>	<b>196</b>	<b>264.552(h)</b>					
<b>RA may impose additional requirements to protect human health &amp; the environment</b>	<b>196</b>	<b>264.552(i)</b>					
<b>incorporation of a CAMU into existing permit must be approved by RA according to 270.41 or 270.42</b>	<b>196</b>	<b>264.552(j)</b>					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>CAMU designation does not change EPA's authority to address clean-up levels, media-specific compliance, or other remedy selection decisions</b>	<b>196</b>	<b>264.552(k)</b>					

† TEMPORARY UNITS (TU)

Regional Administrator may designate unit as temporary unit for temporary tanks and container storage areas used to treat or store hazardous remediation wastes under 264.101 or RCRA 3008(h), or at a permitted facility not subject to 264.101; Regional Administrator may replace design, operating, or closure standard with alternative requirements which protect human health and environment	121, †175	264.553(a)					
temporary unit to which alternative requirements are applied shall be:	121	264.553(b) <b>intro</b>					
located within facility boundary	121	264.553(b)(1)					
used only for treatment or storage of remediation wastes	121	264.553(b)(2)					
factors Regional Administrator shall consider in establishing temporary unit standards:	121	264.553(c) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
length of time unit will be in operation	121	264.553(c)(1)					
type of unit	121	264.553(c)(2)					
volumes of wastes to be managed	121	264.553(c)(3)					
physical and chemical characteristics of wastes to be managed	121	264.553(c)(4)					
potential for releases from the unit	121	264.553(c)(5)					
hydrogeological and other relevant environmental conditions which may influence migration of potential releases	121	264.553(c)(6)					
potential for exposure of humans and environmental receptors if releases occur	121	264.553(c)(7)					
Regional Administrator shall specify in permit or order length of time, up to a year, the temporary unit will be allowed to operate; design, operating, and closure requirements for the unit	121	264.553(d)					
30 Regional Administrator may extend operational period of temporary unit once for no longer than one year beyond period specified in permit or order, if:	121	264.553(e) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
continued operation of unit will not threaten human health and environment	121	264.553(e)(1)					
continued operation of unit is necessary to ensure timely and efficient implementation of remedial actions	121	264.553(e)(2)					
incorporation of a temporary unit or time extension for temporary unit in an existing permit shall be:	121	264.553(f) <b>intro</b>					
approved in accordance with 270.41 permit modification procedures	121	264.553(f)(1)					
requested by owner/operator as Class II modification in accordance with 270.42	121	264.553(f)(2)					
Regional Administrator shall document rationale for temporary unit designation; documentation made available to public	121	264.553(g)					

† STAGING PILES

section written in special format to make regulatory requirements easier to understand; establishes enforceable legal requirements; "I" and "you" refer to owner/operator	175	264.554 <b>intro</b>					
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CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
definition of staging pile; location requirements; designated by Director in accordance with 265.554	175	264.554(a) <b>intro</b>					
<b>storage includes mixing, sizing, blending or other similar physical operations as long as they prepare wastes for subsequent management or treatment</b>	196	264.554(a)(1)					
<b>add and reserve</b>	196	264.554(a)(2)					
use of staging pile	175	264.554(b)					
staging pile designation, information requirements	175	264.554(c) <b>intro</b>					
sufficient and accurate information to enable Director to impose standards and design criteria according to 264.554(d)-(k);	175	264.554(c)(1)					
certification by an independent, qualified, registered professional engineer for technical data, unless Director determines that certification is not necessary to ensure protection of human health and environment; and	175	264.554(c)(2)					
any additional information Director determines necessary to protect human health and environment	175	264.554(c)(3)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
staging pile performance criteria	175	264.554(d) <b>intro</b>					
standards and design criteria must:	175	264.554(d)(1) <b>intro</b>					
facilitate a reliable, effective and protective remedy;	175	264.554(d)(1)(i)					
be designed to prevent or minimize releases of hazardous wastes and hazardous constituents, and control cross-media transfer, protect human health and environment; and	175	264.554(d)(1)(ii)					
not operate for more than 2 years, except when Director grants extension under 264.554(i); time limit is measured from the first time remediation waste placed into staging pile; records maintenance requirements	175	264.554(d)(1)(iii)					
in setting standards and design criteria, Director must consider:	175	264.554(d)(2) <b>intro</b>					
length of time pile will be in operation	175	264.554(d)(2)(i)					
volumes of wastes intended to be stored	175	264.554(d)(2)(ii)					
physical and chemical characteristics of wastes	175	264.554(d)(2)(iii)					
potential for releases	175	264.554(d)(2)(iv)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
hydrogeological and other environmental conditions that may influence migration of potential releases;	175	264.554(d)(2)(v)					
31 potential for human and environmental exposure	175	264.554(d)(2)(vi)					
ignitable or reactive remediation waste must not be placed in staging pile unless:	175	264.554(e) <b>intro</b>					
remediation waste has been treated, rendered or mixed so that:	175	264.554(e)(1) <b>intro</b>					
remediation waste no longer meets definition of ignitable or reactive under 261.21 or 261.23; and	175	264.554(e)(1)(i)					
waste complies with 264.17(b); or	175	264.554(e)(1)(ii)					
remediation waste is protected from exposure to any material or condition that might cause it to ignite or react	175	264.554(e)(2)					
"incompatible waste" is defined in 260.10; you must comply with the following:	175	264.554(f) <b>intro</b>					
incompatible remediation wastes must not be placed in same staging pile unless you have complied with 264.17(b);	175	264.554(f)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
if remediation waste in pile is incompatible with waste stored in nearby containers, other piles, open tanks or land disposal units, incompatible materials must be separated or protected from one another by dike, berm, wall or other device; and	175	264.554(f)(2)					
remediation waste must not be piled on same base where incompatible wastes were previously piled, unless base has been decontaminated to comply with 264.17(b)	175	264.554(f)(3)					
placement of remediation wastes into staging pile does not constitute land disposal or create a unit subject to RCRA 3004(o)	175	264.554(g)					
Director may allow staging pile to operate for up to 2 years after waste is first placed into pile; except as provided in 264.554(i), staging pile may not be used after time designated in permit, closure plan, or order	175	264.554(h)					
operating extension for a staging pile	175	264.554(i) intro					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Director may grant one operating term extension of up to 180 days beyond specified limit; sufficient and accurate information to enable Director to determine that continued operation of staging pile:	175	264.554(i)(1) <b>intro</b>					
will not pose threat to human health and environment; and	175	264.554(i)(1)(i)					
is necessary to ensure timely and efficient implementation of remedial actions at facility	175	264.554(i)(1)(ii)					
Director may specify further standards and design criteria to ensure protection of human health and environment	175	264.554(i)(2)					
closure requirement for staging pile located in previously contaminated area	175	264.554(j) <b>intro</b>					
within 180 days of operating term expiration, staging pile must be closed when located in previously contaminated area by removing or decontaminating all:	175	264.554(j)(1) <b>intro</b>					
remediation waste;	175	264.554(j)(1)(i)					
contaminated containment system components; and	175	264.554(j)(1)(ii)					
structures and equipment	175	264.554(j)(1)(iii)					



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
contaminated with waste and leachate							
contaminated subsoils must also be decontaminated in manner and according to schedule that Director determines will protect human health and environment	175	264.554(j)(2)					
264.554(j)(1)-(2) requirements must be in permit, closure plan, or order	175	264.554(j)(3)					
closure requirement for staging pile located in uncontaminated area	175	264.554(k) <b>intro</b>					
within 180 days of operating term expiration, staging pile must be closed when located in uncontaminated area according to 264.258(a) & 264.111; or 265.258(a) & 265.111	175	264.554(k)(1)					
264.554(k)(1) requirement must be in permit, closure plan, or order in which the pile was designated	175	264.554(k)(2)					
modification of existing permit, closure plan, or order to allow use of staging pile	175	264.554(l) <b>intro</b>					
to modify permit, other than RAP, to incorporate staging pile or staging pile operating term extension, either:	175	264.554(l)(1) <b>intro</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Director must approve modification under procedures in 270.41; or	175	264.554(l)(1)(i)					
Class 2 modification must be requested under 270.42	175	264.554(l)(1)(ii)					
to modify RAP, comply with modification requirements under 270.170 and 270.175	175	264.554(l)(2)					
to modify closure plan follow applicable requirements under 264.112(c) or 265.112(c)	175	264.554(l)(3)					
to modify order follow terms of order and applicable provisions of 270.72(a)(5) or (b)(5)	175	264.554(l)(4)					
Director must document rationale for designating staging pile or staging pile operating term extension and make documentation available to the public	175	264.554(m)					

†, 32 **DISPOSAL OF CAMU - ELIGIBLE WASTES IN PERMITTED HAZARDOUS WASTE LANDFILLS**

if 264.555(a)(1)-(3) conditions are met, the RA may approve placement of CAMU-eligible wastes in hazardous waste landfills not at waste origination site, without meeting 268 requirements:	196	264.555(a) intro					
waste meets 264.552(a)(1) & (2)	196	264.555(a)(1)					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>definition</b>							
<b>RA identifies PHCs in waste &amp; requires treatment to any of the following standards:</b>	<b>196</b>	<b>264.555(a)(2) intro</b>					
<b>264.552(e)(4)(iv); or</b>	<b>196</b>	<b>264.555(a)(2)(i)</b>					
<b>264.552(e)(4)(v)(A), (C), (D) or (E)(I); or</b>	<b>196</b>	<b>264.555(a)(2)(ii)</b>					
<b>264.552(e)(4)(v)(E)(2), where treatment significantly reduces toxicity or mobility of PHCs, minimizing threat posed by waste</b>	<b>196</b>	<b>264.555(a)(2)(iii)</b>					
<b>landfill must have RCRA permit, meet 264 subpart N requirements &amp; be authorized to accept CAMU-eligible wastes; "permit" does not include interim status</b>	<b>196</b>	<b>264.555(a)(3)</b>					
<b>person seeking approval to provide sufficient information to enable RA to approve placement of CAMU-eligible waste; information in 264.552(d) (1)-(3) required, unless not reasonably available</b>	<b>196</b>	<b>264.555(b)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>RA shall provide public notice &amp; opportunity for comment before approving CAMU-eligible waste for placement off-site; approval must be specific to a single remediation</b>	<b>196</b>	<b>264.555(c)</b>					
<b>applicable part 264 hazardous waste management requirements for CAMU-eligible waste must be incorporated into receiving facility permit through permit issuance or modification, providing notice and opportunity for comment &amp; hearing; a landfill may not receive hazardous CAMU-eligible waste unless specifically authorized by permit</b>	<b>196</b>	<b>264.555(d)</b>					
<b>CAMU-eligible wastes may not be placed in off-site landfill in accordance with 264.555(d) until:</b>	<b>196</b>	<b>264.555(e) intro</b>					
<b>owner/operator notifies RA &amp; persons on mailing list of intent to receive waste; contents of notice</b>	<b>196</b>	<b>264.555(e)(1)</b>					
<b>within 15 days of notification, persons on mailing list may provide comments to RA</b>	<b>196</b>	<b>264.555(e)(2)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

FEDERAL REQUIREMENTS	CHECKLIST REFERENCE	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
<b>within 30 days of notification, RA may object to waste placement; RA can extend review for additional 30 days</b>	<b>196</b>	<b>264.555(e)(3)</b>					
<b>RA notifies owner/operator that he/she does not object</b>	<b>196</b>	<b>264.555(e)(4)</b>					
<b>if RA objects, facility may not receive waste until objection resolved or permit modification under 270.42 is obtained</b>	<b>196</b>	<b>264.555(e)(5)</b>					
<b>RA may modify, reduce or eliminate notification requirements as part of 264.555(d) process</b>	<b>196</b>	<b>264.555(e)(6)</b>					
<b>generators of CAMU-eligible wastes sent off-site under 264.555, must comply with 268.7(a)(4); off-site facilities treating such wastes must comply with 268.7(b)(4); certification with respect to 264.555(a)(2) treatment requirements</b>	<b>196</b>	<b>264.555(f)</b>					
<b>for purposes of 264.555 only, "design of CAMU" in 264.552(e)(4)(v)(E) means design of permitted Subtitle C landfill</b>	<b>196</b>	<b>264.555(g)</b>					

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

- 1 Paragraphs 264.221(c), (d), and (e) were originally introduced to the Federal code by Base Program Checklist IV A. Revision Checklist 17H introduced new text at paragraphs (c), (d), and (e), and it redesignated the base program (c), (d), and (e) as (f), (g), and (h), respectively. Paragraph 264.221(c) was subsequently revised by Revision Checklist 77. Both paragraphs 264.221(c) and (d) were extensively revised by Revision Checklist 100 which added subparagraphs (c)(1) through (c)(4) and (d)(1) through (d)(2).
- 2 Note that there is a technical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); " $1 \times 10^{-7}$ /cm/sec" should be " $1 \times 10^{-7}$ cm/sec."
- 3 Note that there are two technical errors in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); " $1 \times 10^{-1}$ /cm/sec" should be " $1 \times 10^{-1}$ cm/sec" and " $3 \times 10^{-4}$ /m<sup>2</sup>sec" should be " $3 \times 10^{-4}$ m<sup>2</sup>/sec."
- 4 Citations within the double lines are optional, but if a State chooses to modify its program to adopt requirements equivalent to these provisions, it must adopt such requirements as a unit rather than by individual provision. In other words, all or none of these provisions must be included in a State's code. Subsequent changes to these provisions may or may not be optional for States that have chosen to adopt the optional unit of provisions. An optional sign appears in front of the subsequent revision checklist number(s) if such subsequent changes are less stringent than or reduce the scope of the unit's requirements.
- 5 The provisions at 264.221(g), (h), and (i) were originally introduced to the Federal code at 264.221(c), (d), and (e) as part of the base program. Revision Checklist 17H introduced new paragraphs at (c), (d), and (e). The original (c), (d), and (e) were redesignated as (f), (g), and (h). Revision Checklist 100 subsequently redesignated paragraphs 264.221(f), (g), and (h) as 264.221(g), (h), and (i), respectively, and introduced a new paragraph (f) to the Federal code.
- 6 Section 264.222 was originally introduced into the Federal code by Checklist IV A as an exemption from Subpart F for double-lined surface impoundments (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.222 back into the code.
- 7 Revision Checklist 17 I affected this subparagraph by removing the original 264.226(b)(3) and redesignating the original 264.226(b)(4) as (b)(3).
- 8 Revision Checklist 17 I affected this paragraph by removing the original 264.228(b)(2) in Checklist IV A and redesignating 264.228(b)(3) and (b)(4) as (b)(2) and (b)(3), respectively. Revision Checklist 100 subsequently redesignated 264.228(b)(2) and (b)(3) as (b)(3) and (b)(4), respectively, and added a new (b)(2) to the code.
- 9 Revision Checklist 100 redesignated the original 264.251(c), (d), (e), (f), and (g), as introduced by Checklist IV A, as 264.251(g), (h), (i), (j), and (k), respectively, and added new paragraphs (c), (d),

CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

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(e), and (f) to the Federal code.

- 10 Section 264.252 was originally introduced into the Federal code by Checklist IV A as an exemption from Subpart F for double-lined piles (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.252 into the code.
- 11 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "surface impoundment" should be "waste pile."
- 12 Section 264.253 was originally introduced into the code by Checklist IV A as an exemption from Subpart F for inspection of liners (Ground-Water Monitoring) and was removed by Revision Checklist 17 I. Revision Checklist 100 introduced a new section 264.253 into the code.
- 13 The original 264.254(b)(2) was removed by Revision Checklist 17 I, which redesignated 264.254(b)(3) and (4) as 264.254(b)(2) and (3), respectively.
- 14 The Base program originally included provisions at 264.301(c)-(g). Revision Checklist 17H introduced new paragraphs at 264.301(c)-(e) and redesignated the original (c)-(g) as (f)-(i). It also added paragraph 264.301(k). Revision Checklist 100 completely revised paragraphs 264.301(c) and (d), redesignated paragraphs 264.301(f)-(k) as 264.301(g)-(l), respectively, and added a new paragraph 264.301(f).
- 15 Note that there is a technical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "paragraphs (3)(c)(iii) and (iv)" should be "paragraphs (c)(3)(iii) and (iv)."
- 16 Section 264.302 was originally introduced into the code by Checklist IV A as an exemption from Subpart F for double-lined landfills (Ground-Water Monitoring) and was subsequently removed by Revision Checklist 17 I. Checklist 100 introduced a new section 264.302 into the code.
- 17 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 100 (57 FR 3462; January 29, 1992); "surface impoundment" should be "landfill."
- 18 The old 264.303(b)(2) from Checklist IV B was removed by Revision Checklist 17 I. 264.303(b)(3) and (4) were then redesignated by this checklist as 264.303(b)(2) and (3).
- 19 Revision Checklist 17 I removed the old 264.310(b)(2) of Checklist IV A and redesignated 264.310(b)(3),(4),(5)&(6) as 264.310(b)(2),(3),(4)&(5). Subsequently, Revision Checklist 100 redesignated 264.310(b)(3),(4)&(5) as 264.310(b)(4),(5)&(6), and added a new 264.310(b)(3).
- 20 Revision Checklist 17 F redesignated the old 264.314(b) of Checklist IV A as 264.314(d) and added a new 264.314(b). The redesignation is optional.



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

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- 21 Revision Checklist 17 F (50 FR 28702, July 15, 1985) introduced the original 264.314(e), 264.314(e)(1), and 264.314(e)(2) into the code. Revision Checklist 118 (57 FR 54452, November 18, 1992) redesignated these paragraphs as 264.314(f), 264.314(f)(1), and 264.314(f)(2) and introduced a new 264.314(e) and subparagraphs.
- 22 This code is part of the optional requirements for the alternate treatment standards for lab packs under the Third Third Scheduled Waste Rule. If adopted, all of the requirements (i.e., 264.316(f), 265.316(f), 268.7(a)(7), 268.7(a)(8), 268.42(c), 268.42(c)(1)-(4), and Appendices IV and V to Part 268) related to these alternate treatment standards must be adopted.
- 23 Revision Checklist 13 introduced 264.340(a)(1) & (2) to the Federal code. Subparagraph 264.340(a)(2) was subsequently modified by Revision Checklist 19. Revision Checklist 85 then removed 264.340(a)(1) & (2).
- 24 States that adopt the optional exemption at 264.340(b)(1) must adopt all revisions to 264.340, 270.19 and 270.62.
- 25 **Revision Checklist 196 (67 FR 2962; January 22, 2002) revised the title of Subpart S from "Corrective Action for Solid Waste Management Units" to "Special Provisions for Cleanup".**
- 26 **Revision Checklist 196 (67 FR 2962; January 22, 2002) revised the section heading from "Corrective Action Management Units (CAMU)" to "Grandfathered Corrective Action Management Units (CAMUs)", redesignated 264.552 as 265.551, revised the introductory paragraph at newly redesignated 264.551(a), and inserted a new section 264.552.**
- 27 Although 40 CFR 264.552(a)(1) & (2) were included in Revision Checklist 175 (63 FR 65874; November 30, 1998), they were not changed.
- 28 Note that there is a typographical error in the Federal Register addressed by Revision Checklist 121 (58 FR 8658; February 16, 1993); in 264.552(e)(4)(iii)(E), "Hydrological" should be "Hydrogeological".
- 29 **Revision Checklist 196 (67 FR 2962; January 22, 2002) inserted a new section 264.552 entitled "Corrective Action Management Units" (CAMU).**
- 30 Note that at 264.553(e), "Administrator" should read "Regional Administrator" in the Federal Register addressed by Revision Checklist 121 (58 FR 8658; February 16, 1993).
- 31 Note that there is a typographical error in this provision as introduced by Revision Checklist 175 (63 FR 65874; November 30, 1998); the ending semicolon should be a period.



CONSOLIDATED CHECKLIST C5  
40 CFR Part 264, Subparts K-S, as of June 30, 2002 (cont'd)

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- <sup>32</sup> **Revision Checklist 196 (67 FR 2962; January 22, 2002) added a new section to Subpart S at 264.555 called “Disposal of CAMU-eligible wastes in permitted hazardous waste landfills”.**