United States Environmental Protection Agency Region IV Atlanta, GA 22 March 2002 CAA/RCRA Air Rules

RCRA Subpart CC: **Questions and Answers**

RCRA Programs Branch

RCRA HAZARDOUS WASTE AIR EMISSION STANDARDS RCRA Subpart CC: Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote Prepared by: Research Triangle Institute P.O. Box 12194 Research Triangle Park, North Carolina 27709 RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote i

Disclaimer

The information in the document has been funded by RCRA Programs Branch, Region 4 of

the United States Environmental Protection Agency. It has been subjected to the EPA's peer

and administrative review. Mention of trade names or commercial products does not constitute

endorsement or recommendation for use by EPA.

This document is not intended, nor can it be relied upon, to create any right enforceable by

any party in litigation with the United States. The EPA may change this document at any

time without public notice.

When using this document, remember that it is not legally binding and does not replace any

applicable Federal regulations such as the "Hazardous Waste Treatment, Storage, and

Disposal Facilities and Hazardous Waste Generators; Organic Air Emission Standards for

Tanks, Surface Impoundments, and Containers [December 6, 1994 (59 FR 62896) and

amended regulations, or any State and local rules that may apply to your facility."

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote iii

Table of Contents

Page 1.0 INTRODUCTION	
Regulatory History	
Scope of Document	
General Overview	•
2.0 DEFINITIONS	•
	•

Questions and Answers
3.0 COMMON ACRONYMS
4.0 APPLICABILITY
13 Summary of Subpart CC Requirements
Effective Dates
Exemptions/deferrals
5.0 WASTE DETERMINATION
General Information
6.0 GENERATORS
27
General Information
Question and Answers
General Information
8.0 CONTAINER STANDARDS
General Information
Questions and Answers
9.0 CLOSED-VENT SYSTEMS AND
CONTROL DEVICES
General Information
General Information
Questions and Answers
11.0 RECORDKEEPING AND REPORTING
General Information
Questions and Answers
RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote iv

12.0 WASTE TRANSFER
General Information
Questions and Answers
13.0 SUBPARTS AA AND BB
Questions and Answers
14.0 PERMITTING
53
General Information
Questions and Answers
15.0 STATE AUTHORIZATION
General Information
16.0 INTERFACE WITH OTHER LAWS
General Information
LIST OF RESOURCES
AVAILABILITY
RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 1 1.0 INTRODUCTION
Regulatory History Under the authority of the Resource Conservation and Recovery Act
(RCRA), the Environmental Protection Agency (EPA) created a regulatory
framework addressing the management of solid waste and hazardous waste. The Hazardous and
Solid Waste Amendments (HSWA) of 1984 added §3004(n) to RCRA, requiring EPA
to develop
regulations to monitor and control air emissions from hazardous waste management
operations. As a result, EPA established a phased approach to implement the air emission
standards. Phase I addressed organic emissions from process vents associated with certain
hazardous waste management processes (Subpart AA) and leaks from

specific types of

equipment used in hazardous waste management processes (Subpart BB) (55 FR 25454; June

21, 1990). In the December 6, 1994, Federal Register, EPA completed Phase II of the RCRA air

emission program by promulgating regulations to address organic air emissions from tanks,

surface impoundments, and containers at 40 CFR Parts 264/265, Subpart CC (59 FR 62896).

Since promulgation of the Subpart CC final rule EPA has published several clarifications and

amendments that are discussed below.

On September 29, 1995, EPA issued an administrative stay of the Subpart CC

standards for certain facilities within the organic peroxide manufacturing industry (60 FR

50426). The wastes that these facilities typically generate are inherently unstable and cannot

be safely confined in a closed unit. Therefore, with the exception of recordkeeping,

Subpart CC does not apply to these facilities provided certain criteria are met. On February

9, 1996 (61 FR 4903), EPA made several clarifying amendments to the regulatory text of the

December 6, 1994, final standards. This notice corrected several typographical and

grammatical errors, and clarified preamble language. On November 25, 1996, a second

amendment to the Subpart CC final standards was published (61 FR 59932). This

amendment substantially amended the regulations in order to provide additional flexibility

to owners/operators subject to the Subpart CC regulations. This notice also established the

December 6, 1996, effective date for implementation of the Subpart CC air emission $\frac{1}{2}$

standards. Further amendments were made on October 8, 1997 (62 FR 52642), December 8,

1997 (62 FR 64658), March 6, 1998 (63 FR 11131), April 22, 1998 (63 FR 19838), September

15, 1998 (63 FR 49392), October 7, 1998 (63 FR 53847), and January 21, 1999 (64 FR 3389).

Scope of Document

This document is a compilation of common questions received by EPA and the RCRA,

Superfund & EPCRA Hotline concerning the Subpart CC air emission standards. It is to be

used as guidance in assisting the regulated community and public in their understanding of

the Subpart CC standards, but is not intended to replace or supersede the regulations.

Readers should use this document in conjunction with the codified regulations as follows:

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 2

C The final published rule in the December 6, 1994, Federal Register (59 FR 62896),

C The clarification notice published in the February 9, 1996,

```
Federal Register (61 FR
4903),
C The regulatory amendments published in the November 25, 1996,
Federal Register (61
FR 59932),
C All recent amendments published on October 8, 1997 (62 FR
52642), December 8,
1997 (62 FR 64658), March 6, 1998 (63 FR 11131), April 22, 1998
(63 FR 19838),
September 15, 1998 (63 FR 49392), October 7, 1998 (63 FR 53847),
and January 21,
1999 (64 FR 3389), and
C The guidance document, Hazardous Waste Treatment, Storage, and
Disposal Facilities
- Background Information for Promulgated Organic Air Emission
Standards for Tanks,
Surface Impoundments, and Containers (EPA-453/R-94-0766) referred
to hereafter as
the Subpart CC Background Document, November 1994.
C In addition, readers should contact their implementing agency
regarding site-specific
regulatory determinations and other interpretive matters.
For additional information on the Subpart CC regulations, call
the RCRA, Superfund
& EPCRA Hotline at (800) 424-9346 or, in the Washington DC area,
(703) 412-9810. To reach the Hotline via TDD call (800) 553-7672
or (703) 412-3323. The
Hotline is open Monday through Friday from 9:00 AM to 6:00 PM
EST, excluding Federal
holidays. The Hotline responds to questions from the regulated
community, and the public
pertaining to RCRA, Underground Storage Tanks (USTs), the
Comprehensive Environmental
Response, Compensation, and Liability Act (CERCLA or Superfund),
the Emergency Planning
and Community Right-to-Know Act (EPCRA), §112(r) of the Clean Air
Act (CAA), the Oil
Pollution Act (OPA), and other related EPA programs.
All regulatory references in this document are to Title 40 of the
Code of Federal
Regulations (CFR), unless otherwise noted. In addition, please
note that the Subpart CC
regulations contained in Parts 264 and 265 are identical, except
for reporting requirements.
There are no reporting requirements under 40 CFR Part 265 for
owners/operators of interim
status TSDFs, or for LQGs. Thus, with the exception of the
reporting requirements which are
found only in Part 264, any reference made in this document
towards a particular
requirement of 40 CFR may be applied to the regulations contained
in either Part 264 or 265.
```

General Overview

regulations.

references to the Part 265

Subpart CC applies to all tanks, surface impoundments, and containers at treatment,

For convenience, where possible, this document only contains

storage, and disposal facilities (TSDFs), and to large quantity generators (LQGs)

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 3

accumulating hazardous waste in permit-exempt tanks and containers. By requiring air

emission controls on these units, EPA expected to reduce nationwide organic emissions by

approximately 970,000~Mg/yr from tanks, surface impoundments, and containers located at

TSDFs, and 73,000 Mg/yr from LQG sites. Subpart CC requires that owners/operators install

specific air emission controls on all tanks, surface impoundments, and containers, unless the

facility owner/operator can demonstrate that the unit qualifies for one of the Subpart CC

exemptions. Units exempt from the air emission standards include those that manage

waste that has been treated to reduce or remove organics in one of the manners specified in

the rule, and units that manage waste that meet the land disposal restriction (LDR) treatment

standards of §268.40. Subpart CC also contains exemptions for certain types of units (e.g.,

small containers) as well as for units managing certain types of wastes (e.g., radioactive mixed wastes).

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 4

This page is intentionally left blank.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 5

2.0 DEFINITIONS

Following is a list of definitions from the RCRA Subpart CC rules found in §265.1081:

Average volatile organic concentration or average VO concentration means the

mass-weighted average volatile organic concentration of a hazardous waste as determined in

accordance with the requirements of Sec. 265.1084 of this subpart.

Closure device means a cap, hatch, lid, plug, seal, valve, or other type of fitting that

blocks an opening in a cover such that when the device is secured in the closed position it

prevents or reduces air pollutant emissions to the atmosphere. Closure devices include

devices that are detachable from the cover (e.g., a sampling port cap), manually operated

(e.g., a hinged access lid or hatch), or automatically operated
(e.g., a spring-loaded pressure
relief valve).

Continuous seal means a seal that forms a continuous closure that completely covers

the space between the edge of the floating roof and the wall of a tank. A continuous seal may

be a vapor-mounted seal, liquid-mounted seal, or metallic shoe seal. A continuous seal may

be constructed of fastened segments so as to form a continuous

seal.

 ${\it Cover}$ means a device that provides a continuous barrier over the hazardous waste

managed in a unit to prevent or reduce air pollutant emissions to the atmosphere. A cover

may have openings (such as access hatches, sampling ports, gauge wells) that are necessary

for operation, inspection, maintenance, and repair of the unit on which the cover is used. A

cover may be a separate piece of equipment which can be detached and removed from the

unit or a cover may be formed by structural features permanently integrated into the design $% \left(1\right) =\left(1\right) +\left(1\right)$

of the unit.

Enclosure means a structure that surrounds a tank or container, captures organic

vapors emitted from the tank or container, and vents the captured vapors through a

closed-vent system to a control device.

External floating roof means a pontoon-type or double-deck type cover that rests on

the surface of the material managed in a tank with no fixed roof. Fixed roof means a cover that is mounted on a unit in a stationary position and does

not move with fluctuations in the level of the material managed in the unit.

Floating membrane cover means a cover consisting of a synthetic flexible membrane

material that rests upon and is supported by the hazardous waste being managed in a surface

impoundment.

Floating roof means a cover consisting of a double deck, pontoon single deck, or

internal floating cover which rests upon and is supported by the material being contained,

and is equipped with a continuous seal.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 6

Hard-piping means pipe or tubing that is manufactured and properly installed in

accordance with relevant standards and good engineering practices.

In light-material service means the container is used to manage a material for which

both of the following conditions apply: The vapor pressure of one or more of the organic

constituents in the material is greater than 0.3 kilopascals (kPa) at 20 deg.C; and the total

concentration of the pure organic constituents having a vapor pressure greater than $0.3\ \mathrm{kPa}$

at 20 deg.C is equal to or greater than 20 percent by weight. *Internal floating roof* means a cover that rests or floats on the material surface (but not

necessarily in complete contact with it) inside a tank that has a fixed roof.

Liquid-mounted seal means a foam or liquid-filled primary seal mounted in contact

with the hazardous waste between the tank wall and the floating roof continuously around

the circumference of the tank.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of

air pollution control equipment, process equipment, or a process to operate in a normal or

usual manner. Failures that are caused in part by poor maintenance or careless operation are

not malfunctions.

Maximum organic vapor pressure means the sum of the individual organic constituent

partial pressures exerted by the material contained in a tank, at the maximum vapor

pressure-causing conditions (i.e., temperature, agitation, pH effects of combining wastes,

etc.) reasonably expected to occur in the tank. For the purpose of this subpart, ${\tt maximum}$

organic vapor pressure is determined using the procedures specified in Sec. 265.1084(c) of this subpart.

 ${\it Metallic \ shoe \ seal \ means \ a \ continuous \ seal \ that \ is \ constructed \ of \ metal \ sheets \ which$

are held vertically against the wall of the tank by springs, weighted levers, or other

mechanisms and is connected to the floating roof by braces or other means. A flexible coated

fabric (envelope) spans the annular space between the metal sheet and the floating roof.

No detectable organic emissions means no escape of organics to the atmosphere as

determined using the procedure specified in Sec. 265.1084(d) of this subpart.

Point of waste origination means (1) When the facility owner or operator is the

generator of the hazardous waste, the point of waste origination means the point where \boldsymbol{a}

solid waste produced by a system, process, or waste management unit is determined to be a $\,$

hazardous waste as defined in 40 CFR part 261. [Note: In this case, this term is being used in

a manner similar to the use of the term point of generation in air standards established for

waste management operations under authority of the Clean Air Act in 40 CFR parts 60, 61,

and 63.] (2) When the facility owner and operator are not the generator of the hazardous

waste, point of waste origination means the point where the owner or operator accepts

delivery or takes possession of the hazardous waste.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 7

Point of waste treatment means the point where a hazardous waste to be treated in

accordance with Sec. 265.1083(c)(2) of this subpart exits the treatment process. Any waste

determination shall be made before the waste is conveyed, handled, or otherwise managed in

a manner that allows the waste to volatilize to the atmosphere. Safety device means a closure device such as a pressure relief valve, frangible disc,

fusible plug, or any other type of device which functions exclusively to prevent physical

damage or permanent deformation to a unit or its air emission control equipment by venting

gases or vapors directly to the atmosphere during unsafe conditions resulting from an

unplanned, accidental, or emergency event. For the purpose of this subpart, a safety device

is not used for routine venting of gases or vapors from the vapor headspace underneath a

cover such as during filling of the unit or to adjust the pressure in this vapor headspace in

response to normal daily diurnal ambient temperature fluctuations. A safety device is

designed to remain in a closed position during normal operations and open only when the $\,$

internal pressure, or another relevant parameter, exceeds the device threshold setting

applicable to the air emission control equipment as determined by the owner or operator

based on manufacturer recommendations, applicable regulations, fire protection and

prevention codes, standard engineering codes and practices, or other requirements for the

safe handling of flammable, ignitable, explosive, reactive, or hazardous materials.

Single-seal system means a floating roof having one continuous seal. This seal may be

vapor-mounted, liquid-mounted, or a metallic shoe seal.

Vapor-mounted seal means a continuous seal that is mounted such that there is a

vapor space between the hazardous waste in the unit and the bottom of the seal.

Volatile organic concentration or VO concentration means the fraction by weight of the

volatile organic compounds contained in a hazardous waste expressed in terms of parts per

million (ppmw) as determined by direct measurement or by knowledge of the waste in

accordance with the requirements of Section 265.1084 of this subpart. For the purpose of

determining the VO concentration of a hazardous waste, organic compounds with a ${\tt Henry's}$

law constant value of at least 0.1 mole-fraction-in-the-gas-phase/mole-fraction-in the

liquid-phase (0.1 Y/X) (which can also be expressed as 1.8 x 10^{-6} atmospheres/gram-mole/m₃)

at 25 degrees Celsius must be included. Appendix VI of this subpart presents a list of

compounds known to have a Henry's law constant value less than the cutoff level.

Waste determination means performing all applicable procedures in accordance with

the requirements of Sec. 265.1084 of this subpart to determine whether a hazardous waste

meets standards specified in this subpart. Examples of a waste determination include

performing the procedures in accordance with the requirements of

Section 265.1084 of this

subpart to determine the average VO concentration of a hazardous waste at the point of

waste origination; the average VO concentration of a hazardous waste at the point of waste

treatment and comparing the results to the exit concentration limit specified for the process

used to treat the hazardous waste; the organic reduction efficiency and the organic

biodegradation efficiency for a biological process used to treat a hazardous waste and

comparing the results to the applicable standards; or the maximum volatile organic vapor

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 8

pressure for a hazardous waste in a tank and comparing the results to the applicable standards.

Waste stabilization process means any physical or chemical process used to either

reduce the mobility of hazardous constituents in a hazardous waste or eliminate free liquids

as determined by Test Method 9095 (Paint Filter Liquids Test) in Test Methods for

Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication No. SW-846, Third

Edition, September 1986, as amended by Update I, November 15, 1992 (incorporated by

reference-refer to Section 260.11 of this chapter). A waste stabilization process includes

mixing the hazardous waste with binders or other materials, and curing the resulting

hazardous waste and binder mixture. Other synonymous terms used to refer to this process

are waste fixation or waste solidification. This does not include the adding of absorbent

materials to the surface of a waste, without mixing, agitation, or subsequent curing, to absorb free liquid.

Questions and Answers

Question 2.1 How is "volatile organic" defined for purposes of Subpart CC?

Answer 2.1 Although EPA does not specifically define the term "volatile organic" for

purposes of Subpart CC, the presence of volatile organics in the waste is

determined according to Method 25D of Part 60, Appendix A. Method 25D

is used as a definitive test method for purposes of determining the volatile

organic concentration of waste materials being placed in units subject to

Subpart CC. EPA's objective in developing Method 25D was to define a

practical screening procedure that provided a relative measure of the

organic emission potential of a waste. It is not intended to be an actual

measure of the organic emissions from waste at the facility (Subpart CC

Background Document, pp. 8-6). The owner/operator is, however, allowed

to subtract any Method 25D contribution that is a result of including a

compound with a low potential to volatilize [having a Henry's law constant

of less than 0.1 Y/X

(mole-fraction-in-the-gas-phase/mole-fraction-in-the-liquid-phase) at 25°C].

A table listing the known compounds meeting this criterion is found in

Appendix VI of Part 265.

Question 2.2 What is the definition of "waste stabilization"? RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 9

Answer 2.2 "Waste stabilization" is any physical or chemical process used to reduce the

mobility of hazardous constituents in hazardous waste or to eliminate free

liquids, as determined by Test Method 9095, the paint filter liquids test.

Waste stabilization includes mixing hazardous waste with binders or other

materials and curing the resultant hazardous waste and binder mixture. An

example of waste stabilization is the mixing of Portland cement into a liquid

waste and curing the resultant mixture. Other synonymous terms used to

refer to the waste stabilization process are "waste fixation" and "waste

solidification" (§265.1081). The process of adding non-reactive waste

absorbent material to the surface of the waste is specifically excluded from

the definition of waste stabilization.

A process that does not involve mixing of hazardous waste with a binder

and subsequent curing of the resulting mixture is not waste stabilization.

Examples of operations that are not waste stabilization are the cleaning of

tanks and the dewatering of sludge where the intent is to eliminate free

liquids from the waste (Subpart CC Background Document, pp. 6-58).

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 10 This page is intentionally left blank RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 11

3.0 COMMON ACRONYMS

AEA Atomic Energy Act

ARAR Applicable or Relevant and Appropriate Requirements BIF Boiler and Industrial Furnace CAA Clean Air Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act DOE Department of Energy DOT Department of Transportation EPA Environmental Protection Agency EPCRA Emergency Planning and Community Right-to-Know HSWA Hazardous and Solid Waste Amendments LDR Land Disposal Restrictions LQG Large Quantity Generator NDO Natural Draft Openings NESHAP National Emission Standards for Hazardous Air Pollutants NRC Nuclear Regulatory Commission NSPS New Source Performance Standards ppmw parts per million by weight RCRA Resource Conservation and Recovery Act SQG Small Quantity Generator TSDF Treatment, Storage, and Disposal Facility RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 12 This page is intentionally left blank. RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 13

4.0 APPLICABILITY

Summary of Subpart CC Requirements

The Subpart CC regulations apply to owners and operators of all tanks, surface

impoundments, and containers at TSDFs, and to all LQGs accumulating hazardous waste in

permit-exempt tanks and containers. However, only units managing wastes with an average

volatile organic concentration at the point of waste originiation of greater than or equal to

500 ppmw need to be equipped with emission control equipment. Other units need only

follow the waste determination and recordkeeping requirements, as discussed later in this

document.

The following types of units are not subject to Subpart CC: C Tanks, surface impoundments, and containers that hold hazardous waste but have

not received hazardous waste on or after December 6, 1996; C Tanks and surface impoundments that have stopped receiving hazardous waste and

for which the owner/operator has begun implementing or completed closure pursuant

to an approved closure plan;

C Containers with a design capacity less than or equal to 0.1 $\ensuremath{\text{m}}_3$ (approximately

26 gallons);

C Units exempt from RCRA regulation under §265.1, such as wastewater treatment

units or elementary neutralization units (Note: LQGs accumulating hazardous waste

in tanks and containers are among the permitting exclusions found in §265.1;

however, these types of units are subject to the requirements of

Subpart CC);

C Tanks, surface impoundments, and containers equipped with and operating air

emission controls in accordance with an applicable CAA standard codified under Part

60, Part 61, or Part 63, with the exception of tanks being controlled through the use of

an enclosure rather than a cover; and

C A tank that has a process vent as defined in §264.1031. Note: Subpart AA may apply.

EPA has granted a temporary deferral from the Subpart CC standards for the following types of units:

 $\ensuremath{\text{\textbf{C}}}$ Waste management units used solely to treat or store hazardous waste generated on

site from remedial activities required under RCRA corrective action, CERCLA

response authorities, or any other similar State or Federal remediation authorities;

and

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 14

C Waste management units used solely to manage radioactive mixed waste, in

accordance with all applicable regulations under the authority of the Atomic Energy

Act and the Nuclear Waste Policy Act.

The effective date for units subject to the requirements of Subpart CC is December 6,

1996 (§265.1082(a)(1)). At facilities where required air emission control equipment cannot

be in operation by the effective date of the rule, the owner/operator must prepare an

implementation schedule for the installation of such equipment, specifying dates by which

progress will be made toward compliance with Subpart CC. The implementation schedule

must demonstrate that required air emission controls will be in operation at the facility no

later than December 8, 1997 ($\S265.1082(a)(2)$). Tanks in which waste stabilization operations

are performed are allowed an extended compliance period. If air emission controls on these

units cannot be installed by the December 6, 1996, effective date, these tanks may also

establish an implementation schedule to ensure that required controls will be in place as soon

as possible, but not later than June 8, 1998 (59 FR 62896, 62912; December 6, 1994).

Question and Answers

Question 4.1 How does Subpart CC apply to transporters of hazardous waste?

Answer 4.1 Subpart CC does not specifically apply to persons transporting hazardous

waste; however, transporters may be indirectly affected as a result of their

business relations with LQGs and TSDFs. In many cases, transportation

companies lease units (e.g., 55-gallon drums, tank trucks, railcars, and

roll-off boxes) to generators or TSDFs for on-site accumulation. Thus, in

order for generators and TSDFs to maintain compliance with Subpart CC,

transporters may need to demonstrate that the containers they provide meet

the air emission standards of Subpart CC (59 FR 62896, 62902; December 6,

1994).

Question 4.2 Section 265.1085 provides standards for owners/operators of hazardous

waste tanks subject to Subpart CC. Are sumps also subject to these air

emission standards?

Answer $4.2~\mathrm{A}$ sump is defined as a pit or reservoir that meets the definition of a tank

and serves to collect hazardous waste for transport to hazardous waste

TSDFs (§260.10). Since sumps meet the definition of tank they are subject

to the air emission control standards for tanks in §265.1085. However,

sumps that are operated in compliance with a CAA requirement (e.g., the

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 15

benzene waste operations National Emission Standard for Hazardous Air

Pollutants (NESHAP) of Part 61, Subpart FF) are exempt from Subpart CC

regulation (§265.1080(b)(7)).

Question 4.3 Are miscellaneous units subject to Subpart CC?

Answer 4.3 Subpart CC air emission standards may be among the

Answer 4.3 Subpart CC air emission standards may be among the regulatory

requirements for a miscellaneous unit seeking a permit under Part 264,

Subpart X. Section 264.601 allows EPA to issue permits to miscellaneous

units at TSDFs on a case-by-case basis. These permits must include terms

and provisions necessary to protect human health and the environment.

The December 6, 1994, Federal Register amended §264.601 to include the

Subpart AA, BB, and CC air emission standards as conditions that \mbox{EPA} may

incorporate into Subpart X permits.

Question 4.4~A facility solely manages hazardous wastes with an organic content below

500 ppmw. Is this facility subject to the Subpart CC regulations? Answer 4.4 A facility that solely manages hazardous waste with an average volatile

organic concentration of less than 500 ppmw is still subject to the Subpart

CC regulations. The facility's units would not need to be equipped with

Subpart CC air emission controls if the facility owner/operator

documents

the results from a waste determination which indicate that the hazardous

waste has an organic content below the 500 ppmw action level. The facility

is still responsible for recordkeeping and for conducting initial and annual

waste determinations (§265.1083(c)(1)).

Question 4.5 A facility has a characteristic hazardous waste with an average volatile

organic concentration of greater than 500 ppmw. The waste is commingled

and diluted with other waste streams until the organic concentration is

below 500 ppmw. Are the downstream units into which the waste is placed subject to Subpart CC controls? What if the waste stream lost its

characteristic as a result of the mixing?

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 16

Answer 4.5 In the situation where the average volatile organic concentration of the

waste drops below 500 ppmw, the receiving units would continue to be

subject to Subpart CC because (1) this waste is still hazardous, (2) it had a

volatile organic concentration of greater than 500 ppmw at its point of

origination, and (3) it has not been adequately treated by an organic removal

or destruction method specified in §265.1083(c)(2). EPA does not view

dilution as an adequate method for treatment of organics as it does not

destroy or remove the organics in the waste stream and therefore, the

original potential for organic emissions from the waste mixture remains

(59 FR 62896, 62915; December 6, 1994).

Alternatively, Subpart CC would cease to apply in a situation where the

waste becomes non-hazardous as a result of dilution since Subpart CC is not

applicable to non-hazardous waste (December 8, 1997; 62 FR 64636; 64644).

As a result, air emission controls are not required for tanks, surface

impoundments, and containers holding non-hazardous waste, even if the

volatile organic concentration exceeds 500 ppmw (61 FR 4903, 4906;

February 9, 1996). The LDR standards, however, prohibit the dilution of a

waste in lieu of adequate treatment (§268.3(a)).

Question 4.6 How does Subpart CC apply to no migration variances under the LDR

program?

Answer 4.6 Presently, Subpart CC does not affect no migration variances under LDR.

On August 11, 1992, EPA proposed a revision to the substantive requirements for submitting a petition to demonstrate "no migration" from a

land disposal unit (57 FR 35940, 35948). According to the December 6,

1994, Federal Register, this proposal includes amending §268.6 to require, as

a condition for receiving a no migration variance, that the applicant

demonstrate that the land disposal unit complies with applicable air

emission standards (59 FR 62896, 62902). As a result, surface impoundments would have to demonstrate compliance with Subpart CC in

order to receive an LDR no migration variance.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 17

Question 4.7 A TSDF generates small quantity generator (SQG) amounts of waste (i.e.,

between 100 and 1,000 kg of hazardous waste per month) which they store

in containers. Are these containers exempt as SQG accumulation units, or

regulated as TSDF containers?

Answer 4.7 The containers would be subject to Subpart CC regulation. All tanks,

surface impoundments, and containers at a TSDF are subject to all applicable Subpart CC requirements regardless of the unit's status as a

generator accumulation unit.

Effective Dates

Question 4.8 What is the effective date of Subpart CC for facilities newly subject to

RCRA (and thus the Subpart CC regulations) as a result of a new waste

listing or characteristic?

Answer 4.9 As EPA develops new hazardous waste listings and characteristics, the

effective date of the Subpart CC standards will be the effective date of the

new listing or characteristic. If an owner/operator cannot install the $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

required air emission controls by this date, an implementation schedule

must be prepared indicating that the required controls will be installed and

operating no later than 30 months after the effective date of the rule which

subjects the unit to hazardous waste regulation (§265.1082(b)(2)).

Exemptions/deferrals

Question 4.10 Sections 265.1080(b)(3) and (4) exclude tanks and surface impoundments

that have begun implementing or that have completed closure pursuant to

an approved closure plan from Subpart CC. Do containers qualify for this

exclusion?

Answer 4.10 Containers do not qualify for the closure exclusion.

EPA promulgated the

exclusion for tanks and surface impoundments undergoing closure to

prevent Subpart CC standards from hindering or preventing closure activities (59 FR 62896, 62913; December 6, 1994). Unlike tanks and surface

impoundments, there are no detailed unit-specific closure standards for

containers in Part 264/265, Subpart I. As a result containers must meet the

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 18

general closure standards found in Part 264/265, Subpart G. According to

these standards, owners/operators must remove any wastes at closure and

dispose or decontaminate any remaining structures or equipment (46 FR

2802, 2831; January 12, 1981). EPA took the position that the closure activities

for containers would be adversely affected by compliance with $\operatorname{Subpart}\ \operatorname{CC},$

since these standards are less complex than the closure standards for tanks

and surface impoundments.

Question 4.11 Subpart CC defers the regulation of waste management units used for the

on-site storage or treatment of remediation wastes (§265.1080(b)(5)). What

specific conditions must be met in order to qualify for this exemption?

Answer 4.11 Section 265.1080(b)(5) contains a temporary deferral for tanks, surface

impoundments, and containers used to treat or store hazardous wastes

generated during remedial activities required under RCRA corrective action,

CERCLA response authorities, or similar Federal or State authorities.

The deferral of regulation for remediation wastes from Subpart CC applies

only to the on-site management of remediation wastes. Tanks, surface

impoundments, and containers managing a combination of wastes generated

by both remedial actions and other processes at the facility or site are

currently regulated by Subpart CC. In addition, a TSDF that receives waste

from an off-site location must manage the waste in accordance with Subpart

CC (59 FR 62896, 62914; December 6, 1994).

Remediation wastes from non-RCRA and non-CERCLA State or Federal remedial authorities may also qualify for the exclusion. For example, the

regulation of waste from a cleanup required under the Toxic Substance

Control Act (TSCA) would be deferred under §265.1080(b)(5). In addition,

remedial wastes generated as a result of a separately funded State cleanup

program would be temporarily deferred from Subpart CC.

Question 4.12 The Subpart CC regulations do not apply to units used for handling wastes

generated as a result of a remedial activity required under RCRA corrective

action authorities, CERCLA, or similar Federal or State authority RCRA Subpart CC - Questions and Answers
Working Draft - Do Not Distribute, Cite, or Quote 19

(§265.1080(b)(5)). Does waste generated as a result of a voluntary cleanup

also meet the terms of this exclusion?

Answer 4.12 Waste generated from voluntary corrective action programs at RCRA

facilities can meet the criteria of this exclusion provided there is some level

of ongoing oversight from a qualified party. For example, a voluntary

corrective action program conducted under the supervision of a State

hazardous waste agency, or by a third party directed by the State, may

qualify for the exclusion. Alternatively, a cleanup that is completely

voluntary, with no State involvement or oversight, will not meet the terms

of the exclusion and any waste generated will be subject to Subpart CC

standards. In every case, owners/operators must contact their implementing

agency to determine the applicability of Subpart CC to a specific voluntary

cleanup.

Question 4.13 Subpart CC provides a regulatory deferral for tanks, surface

impoundments, and containers used to manage radioactive mixed waste

(§265.1080(b)(6)). What are the specific conditions under which mixed

waste is exempt from air emission control standards?

Answer 4.13 EPA has temporarily deferred Subpart CC for tanks, surface impoundments,

and containers used solely to manage radioactive mixed wastes. Radioactive mixed wastes, which are radioactive materials that are also

hazardous under RCRA, are jointly regulated by EPA, under RCRA, and the $\,$

Nuclear Regulatory Commission (NRC), under the Atomic Energy Act (AEA). When developing the Subpart CC regulations for mixed waste, EPA

considered NRC waste management requirements in order to avoid conflicting or inconsistent requirements for such waste. For example, the

Subpart CC requirement that containers be sealed with vapor leak-tight

covers would conflict with the NRC requirement that drums holding radioactive mixed wastes be vented through special filters in order to

prevent the hydrogen concentration in the drum from reaching dangerous

levels (59 FR 62896, 62914; December 6, 1994). Because of this potential for $\frac{1}{2}$

Subpart CC air emission standards to interfere with NRC requirements, EPA

decided to temporarily defer the applicability of Subpart CC for affected

units holding radioactive mixed waste until EPA could further investigate

methods for the effective control of organic emissions from units holding

such wastes.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 20

Question 4.14 A facility has wastes that are presently managed as mixed waste, and

therefore eligible for the mixed waste deferral (§265.1080(b)(6)). However,

a Department of Energy (DOE) administrative action results in the wastes

no longer being designated as mixed waste, but as being solely hazardous.

Is this waste immediately subject to Subpart CC regulation or may the

facility use an implementation schedule?

Answer 4.14 Mixed waste that becomes solely hazardous waste would be immediately

subject to the Subpart CC requirements. The implementation schedule

option is available only to waste that is newly identified as a regulated

hazardous waste due to EPA action. It is not available to waste that is newly

subject to RCRA regulation due to the facility's, or another agency's, actions.

For example, mixed waste is deferred from Subpart CC regulation $(\S265.1080(b)(6))$. If mixed waste loses its radioactive designation due to

DOE action, it becomes solely hazardous waste and the mixed waste deferral

no longer applies. Because it is subject to regulation due to non-EPA action,

it is immediately subject to Subpart CC on the effective date of the agency

action and the facility is not given the option of using an implementation

schedule to comply with RCRA air emission standards.

Question 4.15 The mixed waste deferral only applies to units that solely manage mixed

waste ($\S 265.1080(b)(6)$). Does this suggest that the placement of a

hazardous waste container in the same storage area as a mixed waste

container causes the facility to lose its deferral?

Answer 4.15 For the purposes of the Subpart CC standards, EPA considers each

individual container to be a unit. There is no reason that a container not

```
regulated as a result of the mixed waste deferral cannot be
placed in a
storage area with a container subject to the Subpart CC
standards. EPA
recommends that owners/operators mark the containers to
distinguish the
ones that are exempt, so that an inspector can readily determine
compliance
with the Subpart CC container standards.
Question 4.16 Units meeting the CAA requirements of Part 60, Part
61, or Part 63 are
exempt from Subpart CC controls (§265.1080(b)(7)). Does
compliance with
a State air requirement also allow a facility to claim this
exemption?
RCRA Subpart CC - Questions and Answers
Working Draft - Do Not Distribute, Cite, or Quote 21
Answer 4.16 In order to be exempt from the Subpart CC regulation
§265.1080(b)(7), the unit must be equipped with air emission
controls
operated in compliance with a standard under Part 60, Part 61, or
Part 63.
No other standards qualify the unit for this exclusion. However,
compliance with another standard, such as a State regulation,
also meets the
compliance requirements of Part 60, Part 61, or Part 63, the
facility
owner/operator may be able to document that the unit is operated
compliance with these standards and is thus exempt from Subpart
CC.
Question 4.17 Hazardous waste that has been treated in a
hazardous waste incinerator,
or boiler or industrial furnace (BIF) is not subject to the
Subpart CC control
requirements (§§265.1083(c)(2)(vii) and (viii)). Are
owners/operators
required to perform any sampling to support that the waste is no
longer
subject to Subpart CC controls?
Answer 4.17 Subpart CC does not require that owners/operators
treating hazardous waste
in incinerators or BIFs perform any additional waste
determinations or
performance tests to ensure that Subpart CC standards have been
achieved,
provided that they comply with the standards for incinerators
264/265, Subpart O) or BIFs (Part 266, Subpart H). EPA considers
the unit
specific requirements to be sufficient in demonstrating organic
destruction
of 95 percent or more. As a result, EPA does not feel it is
necessary to
```

perform any additional testing (December 8, 1997; 62 FR 64649). Question 4.18 A facility manages a metal bearing sludge that has

an average volatile

organic concentration of greater than 500 ppmw organics. The LDR treatment standard for this waste does not account for the organic

constituents found in the waste. Is this waste eligible for the LDR

exemption found at §265.1083(c)(4)?

Answer 4.18 Subpart CC contains an exemption to the air emission standards for units

storing hazardous waste that either meets the numerical concentration

limits for organic hazardous constituents applicable to the waste, found in

the LDR Treatment Standards at $\S 268.40$, or has been treated by the

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 22

treatment technology designated in §268.42(a) (§265.1083(c)(4)). If there is

no treatment standard for organics in the waste code's treatment standard,

the facility may still claim this exclusion by meeting the $\S268.48$ universal

treatment standards for all organic constituents present in the waste (See

the discussion of "applicable standard" for UTS in the December 8, 1997; 62 FR 64644).

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 23

5.0 WASTE DETERMINATION

General Information

The Subpart CC regulations apply to all tanks, surface impoundments, and containers

used to manage hazardous waste at TSDFs and LQG sites. However, only units that manage $\,$

hazardous waste with an average volatile organic concentration of greater than or equal to

500 ppmw require air emission controls. The average volatile organic concentration

determination is made at the "point of waste origination." An initial determination is

required before any portion of the hazardous waste is placed in a waste management unit

that is not equipped with and operating and operating Subpart CC air emission controls.

Subsequent waste determinations must be made for each averaging period that waste is

placed in the unit and whenever changes to the source generating the waste stream are

reasonably likely to cause the average VO concentration of the hazardous waste to increase

to the action level of 500 ppmw.

Owners/operators may use either direct measurement or knowledge of the waste to $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

determine the average volatile organic concentration. Direct measurement requires analysis

in accordance with the requirements of Method 25D of Part 60, Appendix A, or one of the

other methods specified in §265.1084(a)(3)(iii). Results obtained from a method other than

Method 25D must be adjusted to equate to a Method 25D concentration. This is

accomplished by multiplying the total concentration measured values by the appropriate $\ensuremath{\mathsf{fm}}$

factors for the constituents in the waste. These fm factors are referenced in the rulemaking

docket as item number F-95-CE3A-S0010.

According to $\S 265.1084(a)(4)$, owners/operators may also use their knowledge of the

waste to determine the average volatile organic concentration of the waste. They may use

information that they have prepared, or use information supplied by the generator.

Examples of such information include adjusted results obtained by another test method,

organic material balances for the source or process generating the waste, documentation that

the waste is generated by a process for which no organics-containing materials are used, or

other knowledge based on manifests, shipping papers, or waste certification notices

 $(\S 265.1084(a)(4)(i)-(iii)).$

All applied knowledge and chosen test methods need not account for any organic

compounds present in the waste with a Henry's Law constant of less than 0.1 Y/X at 25°C. A

list of organic compounds that meet this requirement is found in Appendix VI of Part 265.

Questions and Answers

Question 5.1 Subpart CC emission control requirements apply to all tanks, surface

impoundments, and containers managing hazardous waste with an average

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 24

volatile organic concentration of greater than 500 ppmw. At what point

are facilities required to test hazardous waste in order to determine

whether it exceeds this 500 ppmw action level?

Answer 5.1 The average volatile organic concentration must be determined at the

waste's point of origination ($\S 265.1084(a)$). For TSDFs, the point of

origination depends on whether the waste was generated on site or off site.

When the TSDF is the generator of the hazardous waste, the point of waste

origination is the point where a solid waste produced by a system, process,

or waste management unit is determined to be a hazardous waste as defined

in Part 261. When the TSDF is not the generator of the hazardous waste, the

point of origination is the point where the owner/operator accepts delivery

or takes possession of the hazardous waste. $\ensuremath{\mathtt{EPA}}$ considers this to be the

point when and where the TSDF accepts the waste manifest (61 FR 4903,

4907; February 9, 1996).

For LQGs, the point of origination is the point where a solid waste produced

by a system, process, or waste management unit is determined to be a

hazardous waste under Part 261. If a waste is generated at a place that

cannot not be accessed, such as in an underground storage tank, however,

the sample may be taken from a point downstream of the place of generation, provided the waste sample from that point accurately reflects

the waste at its point of waste origination (61 FR 4903, 4906; February 9, $\,$

1996).

Question 5.2 When using direct measurement to determine the average volatile organic

concentration of a hazardous waste, Subpart CC requires owners/operators

to designate and record an averaging period of less than or equal to one

year (§265.1084(a)(3)(ii)(A)). How many samples must be collected during

that averaging period by owners/operators required to test their hazardous

waste to determine the volatile organic concentration?

Answer 5.2 The facility owner/operator must identify several points, or discrete

quantities, which represent the complete range of organic compositions and

quantities that occur during an averaging period $(\S265.1084(a)(3)(ii)(B))$. As

a result, the number of samples required during an averaging period is

dependent on the number of discrete quantities an owner/operator must

choose to represent the complete range of organic compositions and

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 25

quantities. Examples of a discrete quantity of a hazardous waste include the

quantity of material generated during a process operating mode under a

specific set of normal operating conditions, or the total quantity of material

delivered to a facility in a container. For each of these established discrete

quantities, the owner/operator must collect at least four waste samples,

within the same one-hour period, that are representative of the normal

range of operating conditions for the discrete quantity (§265.1084(a)(3)(ii)(B)). Such normal operating conditions include

fluctuations in ambient temperature and cyclic process operations such as

startup or shutdown, but do not include process malfunctions, maintenance $% \left(1\right) =\left(1\right) +\left(1\right) +$

activities, or equipment cleaning. Although a minimum of four samples of

each discrete quantity is required, EPA expects that an owner/operator

would want to collect more than four samples for analysis if a significant

probability of sampling error exists for a particular hazardous waste stream

or if a waste batch is not homogenous and contains more than four distinct

components (Subpart CC Background Document, pp. 6-28). (See additional

discussion in 62 FR 64646; December 8, 1997.)

Question 5.3 When determining the applicability of Subpart CC to a waste stream the

owner/operator must take at least four individual waste samples (§265.1084(a)(3)(ii)(B)). May these samples be combined and then analyzed

for volatile organic concentration, or must each sample be analyzed

individually? What if the owner/operator is unable to take four individual

samples?

Answer 5.3 Each sample must be analyzed individually using Method 25D of Part 60,

Appendix A, or one or more other appropriate methods listed in §265.1084(a)(3)(iii)(B) through (I). After each sample has been analyzed, the

results are averaged to determine the waste's average volatile organic

concentration. This individual sample analysis accounts not only for

variability in waste streams, but also variability in sampling methods.

If the owner/operator is unable to analyze four individual samples using one

or more of the methods listed in $\S 265.1084(a)(3)(iii)(A)$ through (I), the

resultant waste determination cannot be counted as direct measurement. It

may be possible, however, to count the waste determination as an application of knowledge if the facility can show that the collected samples

are representative of the volatile organic concentration of the entire waste

stream.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 26

Question 5.4 If the owner/operator of a TSDF uses the generator's waste analysis

information to demonstrate that waste is not subject to the air emission

standards, how often must this information be updated to maintain compliance with Subpart CC? Can the generator send the information to

the TSDF monthly or annually, or must the appropriate information accompany each waste shipment?

Answer 5.4 The Subpart CC regulations do not require that waste analysis information

accompany every shipment of hazardous waste sent from the generator to a

TSDF. If the waste analysis information received from the generator with

the first shipment of waste is representative of subsequent shipments to the

TSDF, the TSDF can continue to rely on the original waste analysis

information, within certain limits. Owners/operators are required to update

the waste analysis information at least once every twelve months following

the date of the original analysis (§265.1083(c)(1)).

It is not the responsibility of the generator to supply the TSDF with waste

analysis documentation. Rather, it is the TSDF's option to use this

information to perform volatile organic concentration determinations. In all

cases, it is the responsibility of the person with custody of the waste to

obtain valid information to make compliance determinations. Therefore,

the TSDF should only use shipping papers, waste certifications, or other

generator-prepared information that is known to be accurate (61 FR 4903,

4907; February 9, 1996).

Question 5.5 Is the owner/operator of a hazardous waste management unit that is

already in compliance with the Subpart CC standards required to perform

a new waste determination each time treated hazardous waste is added to

the unit?

Answer 5.5 A waste determination is required only for a treated hazardous waste placed

in a tank, container, or surface impoundment if the unit is exempt from air

emission control requirements under §265.1083(c)(2)(i)(c)(2)(vi). A waste

determination is also not necessary when hazardous waste is treated using

an incinerator designed and operated in accordance with Subpart ${\tt O}$ or a ${\tt BIF}$

designed and operated in accordance with Part 266 Subpart H (62 FR 64647;

December 8, 1997). Owners/operators are not required to perform a waste

determination on waste placed into a unit that already meets the Subpart

CC requirements (59 FR 62896, 62915; December 6, 1994).

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 27

6.0 GENERATORS

General Information

LQGs are allowed to accumulate hazardous waste on site without a permit or interim

status as long as the owner/operator complies with the accumulation requirements of

 $\S262.34$ ($\S270.1(c)(2)(i)$). This section requires compliance with Part 265, Subpart I, for

waste stored in containers and Part 265, Subpart J, for waste stored in tanks. The November

25, 1996, Federal Register revised §265.178 of Subpart I and §265.202 of Subpart J, to require

that tanks and containers operate in compliance with Subpart CC. As a result, LQGs are

subject to the general Subpart CC requirements and the unitspecific air emission control

standards for tanks (§265.1085) and containers (§265.1087).

Subpart CC does not apply to SQGs or conditionally-exempt SQGs accumulating

hazardous waste on site as they are not subject to the standards of §§265.178 or 265.202.

Question and Answers

Question 6.1 Prior to promulgation of Subpart CC, LQGs were not subject to the air

emission standards for process vents and equipment leaks under Subparts

AA and BB. Are LQGs now subject to Subparts AA and BB in addition to

Subpart CC?

Answer 6.1 In order to maintain permit-exempt status under RCRA, LQGs accumulating

hazardous waste in tanks and containers must comply with all applicable

standards in Part 265, Subparts AA, BB, and CC (§§265.178 and 265.202).

EPA estimates that nationwide baseline organic emissions from LQG accumulation tanks and containers is approximately 73,000~Mg/yr. Given

the significant organic emissions from these tanks and containers, $\ensuremath{\mathtt{EPA}}$

determined that it was necessary to subject LQGs to Subparts AA and BB as

well as Subpart CC (59 FR 62896, 62910; December 6, 1994). The requirement that LQGs comply with Subparts AA and BB is independent of

Subpart CC applicability. Thus, it is possible for a LQG to be subject to

Subparts AA or BB, but not Subpart CC.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 28

Question 6.2 A facility does not generate hazardous waste at a uniform rate. Some

months they produce large quantity amounts of waste (i.e., 1,000 kilograms

of hazardous waste, or one kilogram of acutely hazardous waste) while in

other months they generate SQG amounts. Is this "episodic generator"

subject to the Subpart CC regulations?

Answer 6.2 Episodic generators are subject to Subpart CC, even during the months in

which they produce small quantities of waste. If any of a facility's

hazardous waste is managed under the LQG regulations, all of the hazardous waste is subject to applicable Subpart CC regulations.

Question 6.3 How does Subpart CC affect satellite accumulation areas?

Answer 6.3 Subpart CC does not apply to satellite accumulation areas. EPA decided not

to subject satellite accumulation containers to the air emission control

requirements because of their widespread use by manufacturing process

owners/operators to collect small quantities of as-generated hazardous

waste, and their integrated use with manufacturing operations (59 FR 62896,

62910; December 6, 1994).

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 29

7.0 TANK STANDARDS

General Information

The Subpart CC regulations require owners/operators of TSDFs and LQGs to control

organic air emissions from tanks managing hazardous waste with an average volatile organic

concentration of greater than or equal to 500 ppmw at the point of waste origination. There

are two regulatory classes of tanks, Level 1 and Level 2. Level 1 tanks are those tanks that

meet maximum vapor pressure limits based on design capacity, are not heated above the

temperature at which the maximum vapor pressure was determined, and are not units in

which waste stabilization is conducted. Level 2 tanks are those tanks that either do not meet

the Level 1 tank criteria, or that the owner/operator has chosen to operate using Level 2 tank criteria.

A Level 1 tank must be operated with a fixed roof that forms a continuous barrier over

all hazardous waste stored in the tank. All openings in the fixed roof must be either

equipped with a closure device or connected by a closed-vent system to a control device $(\S265.1085(c))$.

Level 2 tanks have several different options for compliance with the Subpart CC

standards. They may be equipped with either a fixed roof and an internal floating roof, an

external floating roof, or a cover vented through a closed-vent system to a control device.

Level 2 tanks may also be pressure tanks that are operated in a closed system, with no

detectable emissions at any time. Finally, Level 2 tanks may be located inside a permanent

total enclosure that is vented through a closed-vent system to an enclosed combustion

control device (§265.1085(d)).

Questions and Answers

Question 7.1 In order to qualify as a Level 1 tank, the unit must contain waste with a

maximum organic vapor pressure below the regulatory limit for the tank's

design capacity. At what point should the owner/operator determine the

vapor pressure of the waste?

Answer 7.1 The owner/operator should determine the maximum organic vapor pressure

on a worst-case scenario basis. For example, if the waste will be heated in

the tank at any time or enters the tank heated, the maximum vapor pressure

should be determined when the waste is at its maximum temperature. If stirred

at any time, the vapor pressure should be tested when the waste is being

stirred. If the vapor pressure exceeds the limits under these circumstances,

the tank must be fitted with Level 2 controls (§265.1085(b)(2)). RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 30

Question 7.2 What procedures may an owner/operator use to demonstrate that a tank is

below the maximum allowable vapor pressures allowed for a Level 1 tank?

Answer 7.2 An owner/operator can determine the maximum organic vapor pressure by

either direct measurement or applying knowledge of the waste ($\S265.1084(c)(2)$). To determine the vapor pressure using direct measurement, the owner/operator may use any of the following analytical

methods: Method 25E in Part 60, Appendix A; methods described in American Petroleum Institute Publication 2517, Third Edition; methods

obtained from standard reference texts; ASTM Method 2879-92; or any other

method approved by the Regional Administrator (§265.1084(c)(3)(ii)).

To determine the organic vapor pressure of a waste using knowledge, the

owner/operator must prepare and record information that documents the

maximum organic vapor pressure of hazardous waste in the tank. An example of information that may be used is documentation that the hazardous waste is generated by a process for which at other locations it

previously has been determined by direct measurement that the waste $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1$

maximum organic vapor pressure is less than the maximum vapor pressure

limit for the appropriate design capacity category ($\S265.1084(c)(4)$).

Question 7.3 Can an owner/operator open the cover of a Level 1

tank to sample the

waste for testing purposes without venting resultant emissions through a

closed-vent system to a control device?

Answer 7.3 An owner/operator can open the cover of a tank to sample waste without

venting emissions through a closed-vent system to a control device (59 FR

62896, 62917; December 6, 1994). Owners/operators using a cover or fixed

roof to meet the air emission control requirements for Level 1 tanks must

comply with the cover design and operating standards. According to these

requirements, each closure device must be secured in the closed position at

all times the hazardous waste is in the tank, except when it is necessary to

use the cover opening to perform routine inspection, maintenance, or other $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1$

activities need for normal operations ($\S 265.1085(c)(3)(i)$). For example,

when a worker needs to open a port or hatch to maintain or repair equipment, the resulting emissions do not need to be vented through a

closed-vent system to a control device (62 FR 64648; December 8, 1997).

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 31

 ${\tt Question}\ 7.4$ The standards for a fixed roof with an internal floating roof used to comply

with the Level 2 tank regulations specify that the process of filling,

emptying, or refilling a tank "shall be continuous and shall be completed as

soon as practical" (§265.1085(e)(2)(i)). How does EPA define "continuous"

for purposes of complying with these standards?

Answer 7.4 In order to be considered "continuous" for purposes of compliance with

 $\S 265.1085(e)(2)(i)$, waste feed operations must proceed without significant

interruption or breaks in the flow of hazardous waste. This requirement is

intended to prevent the mismanagement of hazardous wastes and prevent

the escape of volatile organics into the atmosphere. EPA considers

significant interruption to be any time period beyond what is necessary to

complete normal waste feed operations, taking into consideration the

amount of waste and nature of handling (61 FR 4903, 4910; February 9,

1996). For example, if waste is being added to the tank by emptying the

contents of several individual containers, it is permissible to interrupt the

flow of hazardous waste long enough to switch containers and

continue

waste feed operations.

Question 7.5 One of the Level 2 tank compliance options is the use of a pressure tank

that operates as a closed system with no detectable emissions to the

atmosphere (§265.1085(d)(4)). Would a tank that vents only to an incinerator, and never to the ambient air, meet this requirement? Answer 7.5 All openings of a pressure tank must be equipped with closure devices that

function with no detectable emissions, and the pressure tank must operate $% \frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{$

as a closed system with no venting, except to an emergency or safety device.

Consequently, a tank that routinely vents to any other device or unit, such

as an incinerator, would not meet the definition of a pressure tank and must

meet one of the other Level 2 options in order to be in compliance with

Subpart CC.

Question 7.6 A Level 2 tank may be located inside a permanent total enclosure vented to

a closed-vent system connected to an enclosed combustion device RCRA Subpart CC - Questions and Answers
Working Draft - Do Not Distribute, Cite, or Quote 32

 $(\S265.1085(d)(5))$. This enclosure must be operated in accordance with

"Procedure T - Criteria for and Verification of a Permanent or Temporary

Total Enclosure" under §52.741, Appendix B. One of the provisions of this

procedure requires the evaluation of all natural draft openings (NDOs).

Procedure T defines an NDO as a permanent opening that remains open

during operating procedure. Is a door that remains closed, but not sealed,

during operation of the combustion unit considered an NDO? Answer 7.6 A door that remains closed during operation of the combustion unit does

not qualify as an NDO for the purposes of Procedure T. In many instances,

these doors are an industrial version of a garage door, with crevices along

the sides, top and bottom that let air in and out even when the door is

closed. These cracks or openings along the door would need to be evaluated and counted as NDOs. A door that remains open during times

when hazardous waste is managed in the enclosed tank would be considered an NDO (62 FR 64649; December 8, 1997).

Question 7.7 How are Subpart CC Standards applied to horizontal fixed-roof tanks?

Answer 7.7 This question is addressed in the Subpart CC Background Information Document at pages 6-49 and 6-50. Specifically, any hatches or openings which would be in contact with the waste placed in the tank (i.e., those

below the normal high liquid level of the tank) would be subject to Subpart J and, if applicable, Subpart BB. Those openings or hatches which are above the normal high liquid level are subject to Subpart CC.

Question 7.8 Can vapor balancing back to a container being loaded be used for tanks subject to Subpart CC?

Answer 7.8 Tanks subject to Level 1 tank standards are subject to controls specified at 40 CFR 265.1085(c)(1) through (c)(4). 40 CFR 265.1085(c)(3) specifies when a closure device can be open. Specifically, sub-item (c)(3)(ii) allows opening of a spring-loaded conservation vent during normal operating conditions such as when the tank internal pressure exceeds the internal pressure operating range for the tank as a result of loading operations. As such, vapor balancing would only be allowable if the vapors were released through a valve such as a conservation vent.

Tanks subject to Level 2 tank standards are required to meet one of five control options specified in 40 CFR 265.1085(d). Since vapor-balancing is not one of the 5 control options specified, it could not be used. Vapor balancing would be appropriate control for loading Level 2 containers.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 33

8.0 CONTAINER STANDARDS

General Information

The Subpart CC regulations require owners/operators of TSDFs and LQGs to control

organic air emissions from containers managing hazardous waste with an average volatile

organic concentration of greater than or equal to $500~\mathrm{ppmw}$ at the point of waste origination.

There are three regulatory categories of containers, Level 1, Level 2, and Level 3. Level 1

containers are all containers that have a design capacity between 0.1 $m_{\mbox{\scriptsize 3}}$ and 0.46 $m_{\mbox{\scriptsize 3}}$

(approximately 26 gallons and 119 gallons respectively), and containers with a design

capacity greater than $0.46~m_3$ that are not in light material service (§§265.1087(b)(1)(i) and

(ii)). Level 2 containers have a design capacity greater than 0.46 $\ensuremath{\text{m}_3}$ and operate in light

material service ($\S 265.1087(b)(1)(iii)$). The third category, Level 3, consists of all containers

with a design capacity greater than $0.1\ m_3$ that must remain uncovered for waste stabilization

(§265.1087(b)(2)). Containers with a design capacity less than or equal to 0.1 $m_{\rm 3}\,\,are$ exempt

from Subpart CC regulation (§265.1080(b)(2)).

Level 1 containers have three compliance options under the Subpart CC regulations.

The first option is to meet all applicable Department of

Transportation (DOT) packaging

requirements under 49 CFR Parts 173, 178, 179, and 180. The other Level 1 container

compliance options are to employ a cover and closure devices that form a continuous barrier

over the container openings, or to cover the waste in the container with an organic-vapor

suppressing barrier, such as a foam (§265.1087(c)).

Level 2 containers may also meet DOT packaging standards in order to comply with

the Subpart CC air emission requirements. A second option is to demonstrate that the $\,$

container operates with no detectable organic emissions as determined by Method 21 of Part

60, Appendix A. For a Level 2 container attached to a truck, trailer, or rail car, a third option

is to demonstrate, using Method 27 of Part 60, Appendix A, that the unit is organic

vapor-tight (§265.1087(d)).

Level 3 container emissions must be either vented directly through a closed-vent

system to a control device, or vented inside an enclosure which is exhausted through a

closed-vent system to a control device (§265.1087(e)).

Questions and Answers

Question 8.1 Does Subpart CC contain any provisions that prevent owners/operators

from changing waste management operations at their facility in order to

manage hazardous waste in units that are exempt from the Subpart CC

standards? For example, can an owner/operator change from managing

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 34

hazardous waste in containers that are subject to Subpart CC (e.g.,

55-gallon drums) to managing their wastes in very small containers that

are exempt from regulation (i.e., less than 26 gallons)?

Answer 8.1 Owners/operators have the option to determine the most appropriate way to

manage hazardous wastes generated at their facilities. There is no provision

in Subpart CC that prevents owners/operators from altering management

operations at the facility to incorporate exempt units. If EPA does not feel

that the Subpart CC standards reduce risks posed by such operations in a

manner that is protective of human health and the environment, additional

standards may be promulgated (59 FR 62896, 62901; December 6, 1994).

Question 8.2 According to the RCRA hazardous waste container standards, containers

must be kept closed at all times except when adding or removing hazardous waste (§265.173(a)). Do the Subpart CC standards modify

this

requirement?

Answer 8.2 Subpart CC does not change the requirement that containers be kept closed

at all times except when adding or removing hazardous waste. Subpart ${\tt CC}$

requires that covers and closure devices be installed on containers with

each closure device secured and maintained in a closed position at all times $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) =\left(1\right) +\left(1\right) =\left(1\right$

that hazardous waste is in the container except when it is necessary to use

an opening to add or remove waste or when access inside the container is

needed to perform routine activities other than transfer of hazardous waste.

Such routine activities might include measuring the depth of or sampling

the material in the container or accessing equipment in the container

 $(\S\S265.1087(c)(3))$ and 265.1087(d)(3).

Question 8.3 Typical loading of a tank truck includes leaving the dome open to relieve

pressure and to measure tanker liquid levels. How does Subpart CC apply

to this type of loading operation? Is the truck in compliance while the

dome is open?

Answer 8.3 As described in Answer 8.2, the Subpart CC container standards require that

covers and closure devices be installed on containers with each closure

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 35

device secured and maintained in a closed position at all times that

hazardous waste is in the container except when conducting specific

activities, such as adding or removing the material in the container or

performing other routine activities such as measuring the depth of the

material (§§265.1087(c)(3) and §265.1087(d)(3)). Tank trucks are typically

subjuect to Level 2 standards and $\S 265.11111087(d)(2)$ emissions controls.

The dome can only be open if it is the fitted opening through which loading is

to occurr. An open dome is a violation of §265.1087(d)(2).

Question 8.4 Residues remaining in containers that are rendered empty in accordance

with §261.7 are not regulated under the hazardous waste regulations. Do

the Subpart CC standards apply to these "RCRA-empty" containers? Answer 8.4 Subpart CC does not apply to containers that have been rendered

RCRA-empty in accordance with §261.7. The Subpart CC standards only

apply to tanks, surface impoundments, or containers that manage

hazardous

waste ($\S 265.1080(a)$). Containers that have been rendered RCRA-empty are

no longer managing hazardous waste, and therefore, are not subject to

Subpart CC. Containers that are not RCRA-empty, however, are fully

subject to the applicable Subpart CC air emission control requirements.

Question 8.5 How does Subpart CC affect roll-off boxes used for long-term hazardous

waste storage?

Answer 8.5 Roll-off boxes meet the definition of container in §260.10 and must comply

with the air emission requirements for containers. For example, to satisfy

the Container Level 1 requirements, the roll-off box may be equipped with a

cover and closure devices that form a continuous barrier over the container $% \left(1\right) =\left(1\right) \left(1\right)$

openings when the cover and closure devices are secured in a closed

position. The cover may be a separate cover installed on the container such

as a suitably secured tarp on the roll-off box. Alternatively, an organic apor

suppressing barrier may be placed over the hazardous waste in the roll-off box such that no hazardous waste is exposed to the atmosphere

 $(\S 265.1087(c)(1)(ii), and 265.1087(c)(1)(iii)).$

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 36

Question 8.6 What are the Subpart CC requirements for vacuum trucks?

Answer 8.6 In general, vacuum trucks used to manage hazardous waste are subject to

the Subpart CC regulations. If a vacuum truck is used to treat, store,

dispose of waste at a TSDF or LQG site, the vacuum truck must comply with $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

the Subpart CC container standards applicable to the size of the truck and

vapor pressure of the waste. During waste transfers to vacuum trucks,

venting is allowed through the opening through which the waste is transferred or through a second opening that would serve as a vent $(62\ FR)$

64651; December 8, 1997, 40 CFR 265.1087(d)(3)(iv)).

Question 8.7 One of the compliance options for a Level 2 container is to operate with no

detectable organic emissions at all times (§265.1087(d)(1)(ii)). No

detectable organic emissions is defined as no escape of organics to the

atmosphere as determined using Method 21 of Part 60, Appendix A ($\S265.1081$). Is the owner/operator required to actually test the container

using Method 21?

Answer 8.7 The Subpart CC regulations do not require actual

performance of the

Method 21 test. Rather, the regulations require that the containers be

operated such that they would pass the Method 21 test if it were to be

performed. It is the responsibility of the facility owner/operator to

determine what testing should be performed, or what other precautionary

measures should be taken, to ensure that the containers operate in

compliance with this requirement. Any Method 21 monitoring to determine

if the containers operate with no detectable organic emissions is conducted

at the owner's discretion (62 FR 64653; December 8, 1997).

Question 8.8 Section 265.1087(d)(1)(iii) allows owners/operators to use Method 27 to test

trucks, tankers, and railcars for vapor-tightness. Is it permissible to use an

equivalent DOT leakage test method (i.e., 49 CFR §180.407(h)) to demonstrate compliance with this Subpart CC requirement?

Answer 8.8 The DOT leakage test is not an equivalent test method for demonstrating

compliance with the requirements of Subpart CC. Method 27 is a test

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 37

method that is used to demonstrate the integrity of seals on container

openings. The DOT test specifically blocks off the seals on openings that $% \left(1\right) =\left(1\right) +\left(1\right) +$

are evaluated under Method 27, and is thus not an equivalent means of

demonstrating compliance with this standard. If, however, the DOT leakage

test confirms that the unit is in compliance with all of the DOT packaging

requirements then the unit would be in compliance with Subpart CC ($\S\S265.1087(c)(1)(i)$ and 265.1087(d)(1)(i)).

Question 8.9 Has EPA established a list of approved containers that meet or exceed the standards specified in Subpart CC?

Answer 8.9 EPA has not established a list of approved containers that meet or exceed

the standards of Subpart CC. As a matter of practice, EPA does not endorse

the use of specific products to facilitate compliance with any regulatory

standards. Owners/operators must ensure that any container used to

manage hazardous waste exceeding the 500 ppmw threshold satisfies Subpart CC standards by conducting any required tests before waste is

placed into the unit.

Question 8.10 How should a manufacturer manage containers of waste gelcoats (styrene monomers) that is intended to be polymerized prior to disposal as non-hazardous waste?

Answer 8.10 During storage, the manufacturer must manage the containers consistent with the requirements of 40 CFR 265.173(a) (see question 8.2) and 265.1087(b)(1)(i) or (iii), as applicable. When polymerizing the waste, the containers must be managed consistent with 265.1087(b)(2) and (e). The state agency should also be contacted, as state specific requirements may also apply.

RCRA Subpart CC - Questions and Answers
Working Draft - Do Not Distribute, Cite, or Quote - 31 August 2000 39

9.0 CLOSED-VENT SYSTEMS AND

CONTROL DEVICES

General Information

Closed-vent systems must be designed to route gases, fumes, and vapors from the

hazardous waste management unit to a control device (§265.1088(b)(1)). Closed-vent

systems must be designed and operated with no detectable organic emissions, as determined

by Method 21 of Part 60, Appendix A, and visual inspections, or operated below atmospheric

pressure in accordance with the Subpart AA standards for process vents ($\S265.1088(b)(2)$).

There are additional requirements for closed-vent systems (§265.1088(b)(3) with bypasses.

In order to satisfy the Subpart CC requirements, control devices must meet the

performance standards found in $\S 265.1088(c)$. A control device must be either

designed and operated to reduce the total organic content of the waste by at least 95 percent

by weight, be an $\operatorname{enclosed}$ combustion device designed in accordance with Subpart AA, or be

a flare designed and operated in accordance with

 $\S\S265.1088(c)(1)(i)-(iii)$. Control devices

must be in operation whenever gases or vapors are vented from the waste management unit

through the closed-vent system to the control device (§265.1033(1)).

Questions and Answers

Question 9.1 The Subpart CC methods require that air emissions be vented through a

closed-vent system to a control device. Must a specific type of closed-vent

system be used in order for the facility to be compliance with Subpart CC?

Answer 9.1 A closed-vent system can be designed either to operate as a pressure system

per $\S265.1033(j)(i)$ or below atmospheric pressure as $\S265.1033(j)(2)$.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 40 Question 9.2 A control device receives emissions from several tanks - only one of which

is regulated under Subpart CC. Is the owner/operator required to demonstrate the required 95 percent efficiency of the control device based

solely on the influent from the regulated tank, or should the efficiency of

the control device be calculated based on the combined emissions from all

tanks?

Answer 9.2 The owner/operator is responsible for demonstrating that the control device

will achieve the required 95 percent organic removal efficiency solely for

air emissions from the unit that is subject to the Subpart CC standards.

Therefore, an owner/operator can block off the waste stream influent from

the non-regulated unit and demonstrate compliance with only the waste

stream that is entering the control device from the unit that is subject to

Subpart CC.

Question 9.3 A facility chooses to install a control device in a situation where its use is

not required by Subpart CC. Is this control device subject to the requirements of §265.1088?

Answer 9.3 No. A voluntary control device must remove or destroy organics in the vent

stream and operate whenever hazardous waste is managed in the unit to

which it is attached. EPA has not placed any more substantive requirements on control devices that are used voluntarily.

Question 9.4 If owners/operators choose to use a control device that also meets the

definition of a RCRA hazardous waste management unit, is this unit subject

to the unit-specific standards in Parts 264, 265, and 266, or to

permitting standards of Part 270?

Answer 9.4 Any unit that is used solely as a control device to satisfy the RCRA air

emission standards is not considered a hazardous waste management unit

subject to the unit-specific regulations of Parts 264, 265, and 266, or the

permitting requirements of Part 270. This policy applies to all control

devices, regardless of whether they meet the definition of a RCRA hazardous waste management unit, as long as the unit is functioning solely

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 41

as a control device. If the unit is also managing a separate hazardous waste

stream it must then comply with the appropriate standards in Parts 264,

265, 266, and 270. Note, however, that the air emission regulations do not

limit EPA's omnibus permitting authority. EPA may still impose any permit

conditions determined to be necessary to protect human health and the

environment at permitted facilities (RCRA §3005(c)).

Question 9.5 What are the management standards for spent carbon that is removed from

carbon adsorption systems?

Answer 9.5 Subpart CC requires that all carbon removed from a control device which is

hazardous waste be managed in accordance with §265.1033(m). All

that meets the definition of hazardous waste must be handled in compliance

with specific management standards when removed from the control device,

regardless of the volatile organic concentration of the carbon (62 FR 64654;

December 8, 1997). Spent carbon removed from control devices must

regenerated or reactivated in a unit that is either a Subpart X thermal

treatment unit, a unit equipped with and operating air emission controls in

compliance with Subparts AA and CC, or a unit that is equipped with and

operating air emission controls in compliance with Part 61 or Part 63 of the

CAA. The carbon may also be burned in an incinerator regulated under

Subpart O or in a BIF regulated under Part 266, Subpart H (§265.1033(m)).

Question 9.6 Under what circumstances may a tank's safety device vent directly to the atmosphere?

Answer 9.6 Safety devices may be opened to allow air emissions to vent directly to the

atmosphere whenever doing so is necessary to avoid an unsafe condition

 $(\S\S265.1085(c)(3)(iii))$ and 265.1085(g)(2)(ii)). They may not, however, be

used for the planned or routine venting of organic vapors. Safety devices

function exclusively to prevent physical damage or permanent deformation

to a unit or its air emission control equipment by venting to the atmosphere

during an unplanned, accidental, or emergency event.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 42

Question 9.7 Is "delay of repair" allowed for closed-vent systems operated in compliance with Subpart CC?

Answer 9.7 The Subpart CC standards for closed-vent systems do contain a specific

"delay of repair" provision. Closed-vent systems complying with

Subpart CC standards are subject to the design and operating standards for

closed-vents in Subpart AA (§265.1088(b)). The Subpart AA standards

require that a first attempt at repair be made within five days after a leak is

detected. If repair is infeasible without a process shutdown, or

if emissions

from the immediate repair would exceed those fugitive emissions that

would result from operating the leaking vent, repair may be delayed beyond

this time period. In these instances all repair must be completed before the

end of the next process unit shutdown (§265.1033(k)(3)(iii)).

Question 9.8 Has EPA developed a program to certify emission control equipment under

Subpart CC? If so, has EPA developed a list of approved manufacturers?

Answer 9.8 EPA has not developed a program to certify or approve Subpart CC air

emission control equipment or equipment manufacturers. As a matter of

practice, EPA does not endorse the use of specific products or manufacturers to facilitate compliance with any regulatory standards.

Owners/operators must ensure that all emission control equipment used to

comply with Subpart CC standards meets the applicable requirements of the rule.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 43

10.0 INSPECTION AND MONITORING

General Information

Subpart CC requires that all covers, closed-vent systems, and control devices subject

to Subpart CC be inspected and monitored to ensure that organic air emissions are being

controlled. The inspection and monitoring requirements for each of these control

mechanisms are different.

In general, Level 2 tanks and containers are subject to more requirements than Level

 $1\ \mbox{units.}$ In most instances, tanks, surface impoundments, and containers are required to be

inspected initially on or before the date the unit becomes subject to the Subpart CC air

emission standards, and annually thereafter. Owners/operators must develop and implement $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

a written plan and schedule to indicate how all inspection and monitoring activities will be

implemented at the facility. A copy of the plan and schedule must be placed into the $\,$

facility's inspection plan as required under $\S 265.15$ ($\S 265.1089(b)$).

Questions and Answers

Question 10.1 What are the inspection requirements for owners/operators complying with

the Level 1 tank standards?

Answer 10.1 Owners/operators of Level 1 tanks are initially required to visually inspect

the air emission control equipment for defects (e.g., visible cracks in the

roof sections or damaged seals on the closure devices), on or

before the date

the tank becomes subject to the Subpart CC air emission standards ($\S265.1085(c)(4)(ii)$). Thereafter, the air emission control equipment must

be inspected at least once every year. Inspection and monitoring may be

performed at intervals longer than one year only under certain conditions,

such as when inspecting a cover may expose a worker to dangerous or

unsafe conditions (§265.1085(1)(1)).

 ${\tt Question}\ 10.2$ What are the specific tank repair requirements when a leak is detected in

accordance with the inspection and monitoring requirements of Subpart

CC?

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 44

Answer 10.2 Owners/operators must make a first attempt to repair the leak no later than

five calendar days after detecting the leak. In all cases, the leak must be

repaired no later than 45 calendar days after detection, with the following

exception. Repairs may be delayed beyond 45 days if repair requires

emptying or removal of a tank from service where no alternative tank

capacity is available such that production processes at the facility will be

disrupted. In such cases, repair must be completed the next time the

process unit generating the hazardous waste stops operation for any reason

 $(\S265.1085(k))$. Repair of the tank defect must be completed before the

process or production unit resumes operation.

Question 10.3 What are the monitoring requirements for inaccessible tanks?

Answer 10.3 If a tank is buried partially or entirely underground, an owner/operator is

required to inspect and monitor only those portions of the tank cover and

on or above the ground surface (§265.1085(1)(2)).

Question 10.4 Are owners/operators of containers that meet the DOT regulations on

packaging hazardous materials required to perform monitoring?

Answer 10.4 Owners/operators of Level 1 and Level 2 containers that meet all applicable

DOT regulations are required to perform initial visual inspection to show

compliance with the Subpart CC standards. However, these containers are

not required to do any subsequent monitoring (61 FR 59932, 59947; November 25, 1996).

Question 10.5 At what times must containers be visually inspected?

Answer 10.5 Owners/operators are required to visually inspect the container and the cover and closure devices to check for defects at the time the owner/operator first places waste into the container or accepts possession of RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 45 the container at the facility. However, in those situations where it would not be possible to inspect a container on the date it is accepted at the facility, it would be acceptable for the container to be inspected prior to that date (62 FR 64650; December 8, 1997). Containers that are emptied 24 hours of receipt at the facility are not required to go through this visual inspection ($\S\S265.1087(c)(4)(i)$ and 265.1087(d)(4)(i)). If a container used for managing hazardous waste remains at the facility for at least a year, the container and its cover and closure devices must be visually inspected annually for defects such as cracks, holes, or gaps into the interior of the container when the cover and closure devices are secured in the closed position. Question 10.6 How often must closed-vent systems be inspected and monitored? Answer 10.6 An owner/operator using a closed-vent system to comply with the Subpart CC air emission standards must perform initial leak detection monitoring using Method 21 of Part 60, Appendix A, on or before the date the system becomes subject to Subpart CC. Thereafter, closed-vent system joints, seams, and other connections that are permanently or semipermanently sealed must be visually inspected at least once per year. Other connections must be monitored for leaks using Method 21 annually and at other requested by the Regional Administrator. Components of a closed-

system that are designated as unsafe-to-monitor are subject only

monitoring as frequently as practicable during safe-to-monitor

Working Draft - Do Not Distribute, Cite, or Quote 47 11.0 RECORDKEEPING AND REPORTING General Information

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 46 This page is intentionally left blank.
RCRA Subpart CC - Ouestions and Answers

times

(§265.1033(n)).

```
All TSDFs and LQGs subject to Subpart CC standards are required to maintain
```

records of certain information concerning methods of compliance for each tank, surface

impoundment, and container at the facility. All records must be maintained in the facility's $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left($

operating record for at least three years, with the exception of air emission control

equipment design documentation. These documents must be kept in the operating record

until the equipment is either replaced or is no longer in service (§265.1090(a)).

Containers, tanks and surface impoundments each have unique recordkeeping

requirements. The only recordkeeping requirement for Level 1 containers is to maintain a

copy of the procedure used to determine that containers with a capacity greater than 0.46 $\ensuremath{m_3}$

that do not meet DOT standards are not managing hazardous wastes in light material service

(§265.1087(c)(5)). Level 2 containers have no specific recordkeeping requirements. However,

records of inspections required by §265.1089 must be kept in accordance with the general

inspection requirements of §265.15. Containers using Level 3 controls must maintain

records of the most recent set of calculations and measurements used to verify that the

permanent total enclosure requirements are being met, and all documentation required for

closed-vent systems (§265.1090(d)). Records for facilities with Level 1 or Level 2 tanks must

include tank identification numbers, a record of each required inspection, and other

information specific to the type of tank ($\S\S265.1090(b)(1)$ and (2)). Owners/operators of

surface impoundments subject to Subpart CC must maintain records of surface

impoundment identification numbers, descriptions of the floating membrane cover design

and certifications, and records of each required inspection ($\S265.1090(c)$).

Under Subpart CC only permitted TSDF owner/operators are required to follow

reporting requirements. Owner/operators must submit reports for every incident where a

hazardous waste subject to Subpart CC is placed in a tank, surface impoundment, or

container not meeting Subpart CC requirements (§264.1090(a) and (b)). Facilities are also

required to submit semiannual written reports to the Regional Administrator. Reports must

describe every incident during the previous six months where a subject unit operated out of

compliance for periods longer than 24 hours. If all subject units were in compliance during

the preceding six-month period, it is not necessary to file a report (§264.1090(d)).

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 48

Questions and Answers

Question 11.1 The organic content of a hazardous waste is removed using one of the

organic destruction or removal processes described in §265.1083(c)(2).

What are the notification requirements when transporting this waste for

subsequent management at another TSDF?

Answer 11.1 Under Subpart CC, there are no specific notification requirements for the

transport of treated waste. A TSDF does not need to use air emission

controls on units storing waste that has been treated to destroy or remove

organics (62 FR 64650; December 8, 1997). The owner/operator, however,

must keep records in the facility operating log of the waste determination

certifying that the units are not subject to Subpart CC $(\S265.1090(f)(1))$. For

example, an owner/operator may maintain a record of test results, measurements, calculations, waste sample analyses and data, and other

documentation in order to certify that the hazardous waste stored in

affected units has been treated to the appropriate Subpart CC standards.

Question 11.2 Why are there no reporting requirements for owners/operators complying

with the Part 265 interim status Subpart CC standards?

Answer 11.2 EPA did not include Subpart CC reporting requirements for interim status

facilities in an effort to avoid placing any unnecessary regulatory burden on

existing facilities and in order to facilitate the Agency's permitting process.

The Agency has established a consistent approach to regulating interim

status facilities, requiring compliance with technical standards while

omitting some of the more administrative requirements that require

facilities to maintain direct, continuous contact with the $\mbox{\sc Agency}.$ Interim

status standards can generally be met in a straightforward manner without

the need for substantial interpretation by with regulatory authorities.

authorities. In this way, the Agency is able to minimize individual contact

with the regulated community during the interim status period, enabling the

Agency to focus directly on establishing site-specific permit conditions for

those facilities that have already submitted a Part B permit application

(45 FR 33066, 33159; May 19, 1980). RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 49

12.0 WASTE TRANSFER

General Information

The transfer of hazardous waste between tanks, surface impoundments, and

containers regulated under Subpart CC is subject to specific requirements depending on the

types of units involved.

For hazardous waste transfers between containers, transfers involving Level 2 and

Level 3 containers are subject to regulation. Any transfer of waste in or out of a Level 2 or

Level 3 container must be conducted in a manner that minimizes exposure of the hazardous

waste to the atmosphere, to the extent practical, considering the physical properties of the

hazardous waste and good engineering and safety practices. Use of a submerged-fill pipe or

other submerged-fill method, a vapor-balancing system or vapor-recovery system to collect

and control displaced vapors, are a few examples of practices EPA recommends for meeting

these requirements ($\S\S265.1087(d)(2)$ and (e)(6)).

The transfer of waste between two Level 1 containers, between a tank and a Level 1

containers, or between a surface impoundment and a Level 1 container is not subject to

regulation (61 FR 59932; 59946; November 25, 1996).

The transfer of hazardous waste subject to Subpart CC between two tanks, between a

tank and a surface impoundment, or between two surface impoundments, must be

conducted using continuous hard piping or another closed system that does not allow

exposure of the hazardous waste to the atmosphere. A drain system that meets requirements

of Part 63, Subpart RR - National Emission Standards for Individual Drain Systems is

considered to be a closed system (§§265.1085(j) and 265.1086(e)).

Questions and Answers

Question 12.1 Must waste transfer operations that are being conducted in accordance

with Subpart CC be connected to a control device?

Answer 12.1 Although the transfer of waste between some units subject to Subpart CC

must meet certain requirements, as specified in the regulations, emissions

from waste transfer operations need not be vented through a closed-vent

system to a control device. However, one control option for an individual

drain system is venting through a closed-vent system to a control device.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 50

Question 12.2 What are the requirements for the transfer of waste

from a satellite

accumulation unit to a tank regulated under Subpart CC?

Answer 12.2 The transfer of hazardous waste from a satellite accumulation unit to a

Subpart CC tank is not subject to any waste transfer requirements, but is

subject to Subpart BB Equipment Leak Standards between the exempt unit

and a Subpart CC tank, or surface impoundment. The transfer of waste from a satellite accumulation area into a Level 2 or Level 3 container,

however, must be conducted in a manner that minimizes exposure of the

waste to the atmosphere ($\S\S265.1087(d)(2)$ and (e)(6)).

Question 12.3 What Subpart CC emission controls apply to the transfer of hazardous

waste from a unit subject to the requirements of Subpart CC into a tank

truck?

Answer 12.3 A tank truck meets the §260.10 definition of container and is subject to the

Subpart CC requirements. Thus, when transferring wastes into these units,

all appropriate Subpart CC waste transfer requirements apply (Subpart CC

Background Document, pp. 6-97). If the tank truck meets the definition of a

Level 2, the waste transfer must be conducted in a manner that minimizes

exposure of the waste to the atmosphere $\S\S265.1087(d)(2)$ and (e)(6).

(If the truck is a Level 1 container, no waste transfer requirements would

apply. (See 62 FR 64651 for further discussion of truck-related transfers)

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 51

13.0 SUBPARTS AA AND BB

General Information

The Subpart CC final rules had a significant impact on the existing air emission $\ \ \,$

regulations found at Part 264/265, Subparts AA and BB. As a result of Subpart CC, LQGs $\,$

were subjected to full regulation under Subparts AA and BB. The Subpart CC final rules $\,$

also made several other modifications to these subparts. For example, the Subpart CC rules $\,$

changed the Subpart AA monitoring requirements for two control devices - condensers and

negative pressure systems - to ease the regulatory burden on facilities ($\S\S265.1033(f)(2)$ and

265.1033(j)(2)). Subpart CC also added unsafe-to-monitor and delay-of-repair provisions to

Subpart AA (§§265.1033(n) and 265.1033(k)(3)). Subpart BB regulates equipment which

contains or contacts waste with an organic concentration of greater than ten percent. As a

result of the Subpart CC rules, equipment that contains or

contacts hazardous waste less

than 300 hours per year is no longer subject to Subpart BB regulation (§265.1050(e)). Also,

ceramic and inaccessible connectors are no longer subject to monitoring or recordkeeping requirements (§265.1058(e)).

Questions and Answers

Question 13.1 Are facilities newly subject to Subparts AA and BB due to the Subpart CC

final rule allowed to take advantage of the 30-month implementation

period (§265.1033(a)(2))?

Answer 13.1 No. All treatment, storage and disposal facilities and large quantity generators

had to comply by December 6, 1996.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 52

Question 13.2 Prior to promulgation of Subpart CC, LQGs were not subject to existing air

emission standards for process vents and equipment leaks under Subparts

AA and BB. Are LQGs now subject to Subparts AA and BB in addition to

Subpart CC?

Answer 13.2 In order to maintain permit-exempt status under RCRA, LQGs accumulating

hazardous waste in tanks and containers must comply with the appropriate

standards in Part 265, Subparts AA, BB, and CC (§§265.178 and 265.202).

EPA considers the extension of air emission control requirements to this

category of hazardous waste generators necessary to implement a system of

air emission controls from the point a waste is generated through the point

the waste is treated. The requirement that LQGs comply with Subparts AA

and BB is independent of Subpart CC applicability. Thus, it is possible for a

LQG to be subject to Subparts AA or BB, but not Subpart CC.

Question 13.3 Are recycling units at LQG sites subject to

Subparts AA and BB?

Answer 13.3 Recycling units that gain their permit-exempt status by virtue of being

recycling units, and that are located at LQG sites, are not subject to Subparts

AA and BB (62 FR 64638; December 8, 1997). Recycling units are subject to

Subparts AA and BB when located on hazardous waste management facilities otherwise subject to the permitting requirements of Part 270

 $(\S\S265.1030(b)(2))$ and 265.1050(b)(2).

Question 13.4 Subpart BB requires the implementation of a leak detection and repair

(LDAR) program for certain pieces of equipment. When must LQGs begin

this monthly monitoring program?

Answer 13.4 The initial monthly monitoring survey required under the LDAR program

must be completed prior to the effective date of the Subpart CC rule,

December 6, 1996. Owners/operators must begin monitoring early enough

to allow sufficient time to complete all necessary initial monitoring prior to

the December 6, 1996, effective date. It is not acceptable to only begin the

LDAR program on that date.

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 53

14.0 PERMITTING

General Information

Owners/operators of TSDFs are required to obtain an operating permit under Subtitle

C of RCRA which outlines the site-specific administrative and technical standards with

which a TSDF must comply in order to manage hazardous waste. The TSDF universe

includes two types of TSDFs, permitted and interim status. Permitted TSDFs are facilities

whose permit applications have been reviewed and approved by EPA. Once a final permit is

issued, owners/operators are required to comply with the conditions of the permit and the

regulations in Part 264. Any changes to a TSDF's permit must be approved by EPA. Interim

status facilities are facilities who were in existence on the effective date of regulatory

amendments that caused the facility to become subject to Subtitle C regulation.

Owners/operators of interim status facilities are required to submit a Part A application form

to EPA and comply with a set of self-implementing regulations in Part 265 until their Part B

application is reviewed by EPA. This permit approval process is found in Part 270.

With the promulgation of the Subpart CC air emission standards, both permitted and $% \left(1\right) =\left(1\right) +\left(1\right)$

interim status facilities are required to comply with the air emission regulations and

implement any changes to those units that are affected by Subpart CC.

The December 6, 1994, Federal Register rescinded the permit-as-a-shield provision in

§270.4 to require immediate compliance with Part 265, Subpart CC in order to guarantee

reduced health risks resulting from new air emission controls (59 FR 62896, 62920).

Therefore, permit-as-a-shield cannot be used for compliance with the air emission standards

($\S270.4(a)(4)$). Owners/operators of existing permitted facilities are required to comply with

Part 265, Subpart CC by the December 6, 1996, effective date. Subpart CC does not require

EPA, or the TSDF, to initiate a permit modification specifically

to add the Part 264, air

emission regulations to the facility's permit. For a facility whose permit was issued before

December 6, 1996, EPA will incorporate the Part 264 standards when the permit is reviewed

or reissued, or when the facility submits a Class 3 permit modification request. All approved

permits and Class 3 permit modifications issued by EPA after December 6, 1996, should

incorporate the requirements of Part 264, Subparts AA, BB, and CC.

Questions and Answers

Question 14.1 How does Subpart CC affect interim status facilities that have submitted

their Part B permit applications prior to December 6, 1996?

Answer 14.1 Owners/operators of interim status TSDFs that have submitted Part B $\,$

applications to EPA, but have not received a draft permit as of December 6,

1996, are required to modify their Part B application to incorporate the

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 54

requirements of Part 264, Subparts AA, BB, and CC prior to draft permit

issuance. If the owner/operator has received a draft permit as of December

6, 1996, the requirements of Part 264, Subparts AA, BB, and CC must be $\,$

incorporated into the permit prior to final permit determination. The

Regional Administrator may establish, on a case-by-case basis, a reasonable

date for submittal of the revised Part B application (59 FR 62896, 62921;

December 6, 1994).

If an owner/operator of a interim status facility has submitted a Part ${\sf B}$

application, but has not been issued a final permit by December 6, 1996, the

Part B application must be amended to incorporate the Subpart CC standards. Any Part B amendments should be sent to the EPA Regional

Office until the State has become authorized for these regulations (59 FR

62896, 62921; December 6, 1994).

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 55

15.0 STATE AUTHORIZATION

General Information

The Subpart CC regulations were promulgated under the authority of HSWA.

Therefore, the Subpart CC regulations are applicable in all States regardless of the individual

State's authorization status. In a base-authorized State HSWA regulations are implemented

and enforced by the EPA Regional Offices until the individual State receives interim

authorization under RCRA $\S 3006(g)(2)$ or final authorization under RCRA $\S 3006(b)$ (59 FR

62896, 62921; December 6, 1994).

Questions and Answers

Question 15.1 **If a waste is defined as hazardous on the State level, but not the Federal**

level, would the waste be subject to Subpart CC?

Answer 15.1 Currently, Subpart CC only applies to tanks, surface impoundments, and

containers handling wastes identified as hazardous under the Federal RCRA

program. State-imposed requirements which are beyond the scope of the

Federally-approved program are not enforceable by Federal EPA $(\S271.1(i)(2))$, but maybe enforceable by the authorized state.

Question 15.2 The air emission regulations in an authorized State maintain a 100 ppmw

action level for the application of emission controls. Are owner/operators

required to meet this more stringent provision prior to the State receiving

authorization for the Subpart CC program?

Answer 15.2 EPA has the authority to implement and enforce State regulations that are

more stringent than the Federal rules. Since the State's 100 ppmw action

RCRA Subpart CC - Questions and Answers

Working Draft - Do Not Distribute, Cite, or Quote 56

level is more stringent than the Federal 500 ppmw action level, this action

level would be enforced by the Region until the State became authorized for

Subpart CC (50 FR 28702; 28730; July 15, 1985).

Question 15.3 **If a facility has been issued a permit by an** authorized State that has

adopted but has not been authorized for Subpart CC, does the facility need

a permit modification to incorporate the Part 264, Subpart CC requirements?

Answer 15.3 The Part 264, Subpart CC standards will be incorporated into a facility's

permit when the permit is renewed, reopened, or the owner/operator

submits a Class 3 modification request. Although EPA eliminated the

permit-as-a-shield provision for compliance with the Subpart CC requirements, EPA did not require owners/operators to initiate a permit

modification to add these provisions. All permit modifications will be

initiated by the EPA Regional Office at the appropriate time until the State

becomes authorized for the Subpart CC rules. In some instances, State air

emission regulations may be more stringent or broader in scope than the $\,$

Federal program, and may specifically require a TSDF initiated permit

modification to include the Part 264 standards. RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 57

16.0 INTERFACE WITH OTHER LAWS General Information

RCRA §1006(b) directs EPA to coordinate all provisions of RCRA with the appropriate

provisions of other environmental laws. EPA's intention is to minimize, if not eliminate, to

the extent possible the overlapping of regulatory requirements of multiple acts.

Consequently, RCRA air emission standards must be consistent with, and not duplicative of,

other standards. Subpart CC should complement other laws to create a comprehensive

program for addressing organic air emissions from all waste and related materials recovery operations.

Question 16.1 Will Subpart CC be considered an applicable or relevant and appropriate

requirement (ARAR) at CERCLA sites managing hazardous waste? Answer 16.1 Presently, remediation waste at a CERCLA site is deferred from the Subpart

CC standards ($\S 265.1080(b)(5)$). If, however, the temporary deferral for

units managing remediation wastes is removed, the Subpart CC emission

control standards would likely be considered ARARs for certain types of

remedial and removal actions. Subpart CC may be "applicable" to on-site

remedial actions that use tanks, surface impoundments, and containers to

manage hazardous wastes with an average volatile organic concentration of

greater than 500 ppmw. Subpart CC may be "relevant and appropriate" for

other types of units managing these wastes that are not specifically subject

to Subpart CC, such as waste piles, landfills, and land treatment units (59 $\,$

FR 62896, 62902; December 6, 1994). It is important to note that hazardous

waste managed on site at a CERCLA facility is only subject to the substantive requirements of Subpart CC. Administrative requirements (e.g.,

recordkeeping and reporting) are not applied as they are not included in the

definition of applicable or relevant and appropriate requirements (55 FR

8666, 8756; March 8, 1990).

Question 16.2 Does Subpart CC apply to hazardous waste units managing radioactive

mixed waste?

Answer 16.2 Mixed waste is waste that contains a hazardous waste component, managed

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 58

under RCRA, and a radioactive waste component, managed under AEA.

general, §1006(a) of RCRA provides that if application of both RCRA and

AEA regulations creates a conflict, the AEA regulation would take precedence to the extent of the inconsistency between the regulations (52

FR 15937, 15940; May 1, 1987). EPA has acknowledged that in certain cases

Subpart CC standards are not compatible with the requirements for the safe

management of radioactive mixed wastes. One example of this is a drum

storing mixed waste that generates hydrogen gas during the radioactive

decay process. Such a drum could not operate with no detectable emissions

as required by Subpart CC because the hydrogen gas buildup would pose an

explosive hazard (59 FR 62896, 62903; December 6, 1994). As a consequence of such potential inconsistencies, EPA has decided to temporarily defer the application of Subpart CC standards to tanks, surface

impoundments, and containers that manage radioactive mixed waste $(\S265.1080(b)(6))$.

Question 16.3 Are facilities that are in compliance with the CAA NESHAP or New Source

Performance Standard (NSPS) requirement subject to Subpart CC? Answer 16.3 There is a specific exemption from Subpart CC for tanks, surface

impoundments, and containers (with the exception of a tank in an enclosure) that are in compliance with the CAA NESHAP or NSPS regulations ($\S265.1080(b)(7)$). To qualify for this exemption an owner/operator must certify that organic air emission controls are being

used in accordance with the CAA regulations found at Part 60, Part 61, or

Part 63. The CAA exemption only applies to units that are using required $\ \ \,$

 ${\tt CAA}$ organic air emission controls. If a unit is in compliance with a ${\tt CAA}$

standard through an "emission averaging" or "bubbling" provision it does not

qualify for this exemption, as EPA believes that emissions are not being

controlled to the extent necessary to protect human health and the

environment (61 FR 59932, 59939; November 25, 1996).

Question 16.4 Does Subpart CC contain an exemption for containers complying with DOT regulations?

Answer 16.4 Containers complying with DOT regulations are not specifically exempt

from Subpart CC. An owner/operator may use a container which meets

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 59

DOT specifications under 49 CFR Parts 173, 178, 179, and 180 and has a

design capacity less than $0.46~\mbox{m}_{3}$ (approximately 119 gallons), to comply

with the air emission control requirements for containers ($\S\S265.1087(c)(1)(i)$ and 265.1087(d)(1)(i)). These DOT containers would be

exempt from annual Subpart CC inspection and monitoring requirements

(61 FR 59932, 59947; November 25, 1996). To be in compliance with Subpart CC the unit must meet substantive DOT standards. A unit that is

exempt from the DOT packaging requirements, with the sole exception of

lab packs used for combination packaging as specified in 49 CFR §173.12,

remains subject to Subpart CC requirements (§§265.1087(f)(3) and 265.1087(f)(4)). For example, a DOT packaging which is not among those

specified under Subpart CC container standards would have to be visually

inspected for visible gaps or cracks in the container (62 FR 64650; December 8, 1997).

Question 16.5 How does Subpart CC relate to the Off-Site Waste Recovery NESHAP under the

Clean Air Act?

Answer 16.5 40 CFR 265.1085(b)(7) states that the requirements of Subpart CC do not apply to

a hazardous waste management unit that the owner or operator certifies is equipped with and operating air emission controls in accordance with the requirements of an applicable CAA regulation codified under 40 CFR Part 60, 61 or 63. The Off-Site Waste Recovery NESHAP is codified at 40 CFR Part 63, Subpart DD. If the above conditions are met for the hazardous waste management unit, and the unit is not exempted from compliance with the Off-Site Recovery NESHAP for some reason, then RCRA Subpart CC does not apply to the subject hazardous waste management unit.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 60 This page is intentionally left blank.
RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 61

LIST OF RESOURCES

SUBPART CC

January 21, 1999; 64 FR 3382 - Hazardous Waste Treatment, Storage, and Disposal Facilities

and Hazardous Waste Generators; Organic Emission Standards for Tanks, Surface

Impoundments, and Containers; Final Rule

December 8, 1997; 62 FR 64636 - Hazardous Waste Treatment, Storage, and Disposal

Facilities and Hazardous Waste Generators; Organic Emission Standards for Tanks, Surface

Impoundments, and Containers; Final Rule, EPA530-Z-97-011.

November 25, 1996; 61 FR 59932 - Hazardous Waste Treatment,

Storage, and Disposal

Facilities (TSDFs) and Hazardous Waste Generators; Organic Air Emission Standards for

Tanks, Surface Impoundments, and Containers; Final Rule, EPA530-Z-96-010.

February 9, 1996; 61 FR 4903 - Hazardous Waste Treatment, Storage, and Disposal Facilities

(TSDFs) and Hazardous Waste Generators; Organic Air Emission Standards for Tanks,

Surface Impoundments, and Containers; Final Rule; Technical Amendment.

December 6, 1994; 59 FR 62896 - Hazardous Waste Treatment, Storage, and Disposal

Facilities (TSDFs) and Hazardous Waste Generators; Organic Air Emission Standards for

Tanks, Surface Impoundments, and Containers; Final Rule, EPA530-Z-94-013.

July 22, 1991; 56 FR 33490 - Hazardous Waste Treatment, Storage, and Disposal Facilities

(TSDFs) and Hazardous Waste Generators; Organic Air Emission Standards for Tanks,

Surface Impoundments, and Containers; Proposed Rule, OSW-FR-91-028.

Hazardous Waste TSDFs - Background Information for Promulgated Organic Air Emission

Standards for Tanks, Surface Impoundments, and Containers (Subpart CC Background

Document), November 1994, EPA453-R-94-076b, PB95-149 274.

Hazardous Waste TSDFs - Regulatory Impact Analysis for Promulgated Air Emission

Standards for Tanks, Surface Impoundments, and Containers, November 1994,

EPA453-R-94-077b, PB95-144 499.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 62

SUBPARTS AA AND BB

June 21, 1990; 55 FR 25454 - Hazardous Waste Treatment, Storage, and Disposal Facilities

(TSDFs) - Organic Air Emission Standards for Process Vents and Equipment Leaks; Final

Rule, OSW-FR-90-015.

February 5, 1987; 52 FR 3748 - Hazardous Waste Treatment, Storage, and Disposal Facilities

(TSDFs) - Organic Air Emission Standards for Process Vents and Equipment Leaks; Proposed

Rule, OSW-FR-87-007.

Seminar Publication: Organic Air Emissions from Waste Management Facilities, August

1992, EPA625-R-92-003, PB93-215 598.

Hazardous Waste TSDFs - Background Information for Proposed Organic Emission Standards

for Process Vents and Equipment Leaks, June 1991, ${\tt EPA450-3-89-023}$,

Volume I: Main Text, PB91-233 577

Volume II: Appendices A-F, PB91-233 585

Volume III: Appendices G-L, PB91-233 593.

Hazardous Waste TSDFs - Background Information for Promulgated Organic Emission

Standards for Process Vents and Equipment Leaks, June 1990, EPA450-3-89-009, PB90-252 503.

Hazardous Waste TSDFs - Technical Guidance Document for RCRA Air Emission Standards

for Process Vents and Equipment Leaks, July 1990, EPA450-3-89-021, PB90-263 880.

RCRA TSDF Air Emission - Background Technical Memoranda for Proposed Standards,

October 1986, EPA450-3-86-009.

RCRA Subpart CC - Questions and Answers Working Draft - Do Not Distribute, Cite, or Quote 63

AVAILABILITY

Type of Document Availability

Federal Registers and electronic availability information

RCRA, Superfund & EPCRA Hotline

(703) 412-9810 or (800) 424-9346

625 Series Office of Research and Development

Center for Environmental Research

Information

US EPA

26 West Martin Luther King Drive

Cincinnati, OH 45268

(513) 569-6847

450 Series Office of Air Quality Planning and Standards

Library Services (MD-35)

US EPA

Research Triangle Park, NC 27711

(919) 541-2777

PB Series National Technical Information Service

Department of Commerce

5285 Point Royal Road

Springfield, VA 22161

(703) 487-4650 or (800) 553-6847

Federal Registers and background docket

materials

RCRA Information Center

Crystal Gateway, First Floor

1235 Jefferson Davis Highway

Arlington, VA 22202

(703) 603-9230

Availability of documents is subject to change. Please contact the appropriate office for the

most updated availability information.