permit. rcra. 915244 1986-04-28. Permit_ App-and_Tech_comp_! Check list

GENERAL 🚳 ELECTRIC

APPARATUS AND ENGINEERING SERVICES OPERATIONS
GENERAL ELECTRIC COMPANY ● 175 MILENS ROAD ● TONAWANDA, NEW YORK 14150 ● (716) 876-1200

April 28, 1986

RECEIVED

MAY 23 1986

BUREAU OF HAZARDOUS WASTE TECHNOLOGY DIVISION OF SOLID AND HAZARDOUS WASTE

New York State
Department of Environmental Conservation
Division of Regulatory Affairs
600 Delaware Avenue
Buffalo, N. Y. 14202-1073

ATTENTION: Mr. Paul D. Eismann

Alternate Permit Administrator

Dear Mr. Eismann:

Enclosed please find copies of permit application and technical completeness checklist.

As a matter of record, we agree to the suspension of application processing timeframes outlined in Part 621 Uniform Procedures. A expedient application is respectfully requested.

Sincerely,

Richard W. Conway

Manager

General Electric Company EPA ID No. NYD 067539940 Application 90-84-1218

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RWC/ehj

(Encl.)

APR 3 0 1986

environmental conservation recolon PART 373 TECHNICAL COMPLETENESS CHECKLIST FOR NON-COMMERCIAL HAZARDOUS WASTE TANK/CONTAINER STORAGE/TREATMENT FACILITIES

Contact Name T. HETMANOUSKI Contact Phone Number (716) 876-1200 Date Application Received	Date Review Completed			
Subject requirement	40 CIR section Nos	6 HYCRR Part 373	incation in application	Comments
ART A - APPLICATION	270.11(a) and (b) 270.10(d) 270.13	973-1.4 (a) (5)(i) ¿ (ii) 973-1.4 (a) (5) 973-1.2 (d)		
ORM 1				
1 <u>tabel ftems</u>	• :		COVER PAGE	
 EPA ID number Facility name Facility mailing address Facility location 	·		COVCE PAGE	
2 Pollutant Characteristics	• •		" DESCRIPTION OF SERVICES "SECTION	e e
3 Mane of Facility			COVER PAGE	
4 Facility Contact		i.	COVER PAGE	
* Name and title				
5 <u>facility Mailing Address</u>		,	column PAINT	
6 Facility Location			FACILITY OPERATION PLAN' SECTION	
7 SIC Code(s) • four digits	· ·	'	COURT PAGE	
8 Operator Information				
Name Address Status Phone		er e	COJER PAGE	
9 Indian Land			NA	
-10 Existing Environmental Permits			FACILITY OPERATION	
• works		ł	0.0.1	

Subject requirement	40 CIR section Hos.	373 References	tocation in application Comments
1-10 (continued)			
• RCRA • PSD • Other			
-11 Map			
One mile beyond property line Outline of facility Location of existing and proposed intake and discharge structures			"SPILL PREVENTION" SECTION
 Hazardous waste treatment, storage, and disposal facilities Underground injection wells Springs, rivers, and other surface water bodies 		•	NESCRIPTION OF
-12 Nature of the Business		:	SERVICE?" SECTION
-13 Certification			COJER PAGE
Name, title, and dateAcceptable signature			
ORM 3	ŀ		COVER PAGE
-14 EPA ID Number			
-15 First or Revised Application			
Existing New & PROPOSED ADDITIONS	\		
• Process • Codes and Design Capacities • Process codes			FACILITY & OPERATION PLANSECTION
• Amount • Unit of measure			"PROPOSED ABBITION" SECTION
-17 Description of Hazardous Wastes			"DESCRIPTION OF
 EPA hazardous waste number Estimated annual quantity Unit of measure Process code Process description 			SERVICEZ" SECTION
-18 <u>facility Drawing</u>			FACILITY & OPERATION PLAN & SECTION
-19 Facility Photograph			1144
-20 <u>tatitude and tongitude</u>	,	1	

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Subject requirement	40 CFR section Nos	373 References	location in application	Comments
21 facility Owner				•
• Name • Address • Telephone	·	·	CONET PAGE	
22 Owner Certification				
* Name, signature, date			,	
3 Operator Certification		,		
• Name, signature, date			:	
IT B - FACILITY DESCRIPTION	•			
General Description	270.14(b)(1) Guidance	373-1.5 (a) (2)(i)		
A general description of the facility. Include the nature of the business. Offsite facilities should identify the types of industry served; on-site facilities should briefly describe the process(es) involved in the generation of hazardous waste.	untante		"Description of Services" Section	
lopographic Map	270.14(b)(19)	373-1.5(a)(2)(xix)		
-2a <u>General Requirements</u>			SPILL PREVENTION	•
A topographic map showing the facility and a distance of 1000 feet around it. The following information is required:	•		SECTION	
Scale 1 in < 200 ft Contours sufficient to show surface water f Extend 1000 ft beyond property Map scale Map date 100-yr floodplain Surface waters Surrounding land use Wind rose Map orientation tegal boundaries tocation of access control Injection and withdrawal wells Buildings	law			
Structures Structures Sewers Loading and unloading areas fire control facilities Flood control or drainage barriers Run-off control systems Location of hazardous waste units Access and internal roads				

.Subject requirement	40 CFR section Nos	373 References	toration in application	Coments
B-2a (continued)				
for targe facilities the use of other scales m be acceptable on a case by case basis.	ay ,			
8-2b Additional lopographic Regultements For Land Storage, Treatment and Disposal Facilities	:	;		
Unless exempt from groundwater monitoring requirements, surface impoundments, waste piles, fand treatment, and landfill facilities must include the following information on the topographic map:			NIA	# ** ** ** ** ** ** ** ** ** ** ** ** **
• Groundwater flow direction (Isometric graph) • Groundwater flow rate • Boundwater flow rate • Boundwater of uppermost aquifer • Underlying interconnection between uppermost aquifer and lower aquifer • Point of compliance • Groundwater monitoring wells • The extent of any plume • Hazardous waste management area				
(Although many of these items can be shown on single map, it is allowable to use additional maps to display some of the information. Presentation of all of this information on a sing map may sacrifice clarity.)				
3 <u>Location Information</u>	270.14(b)(11)	373-1.5 (a)(2)(xi)		
B-Ja <u>Seismic Considerations</u>	270.14(b)(11)(i) and (ii)			N/A
for new facilities only, applicant must identify the political jurisdiction (county, township, or election district) in which facility will be located. If located in any of the political jurisdictions specified in Part 264 Appendim VI, the applicant must prove that the facility is located at least 3000 ft from any fault where movement has taken place in Holocene time or that no such faults pass within 200 ft of the portions of the facility used for treatment, storage, or disposal of hazardous waste. Proof may come from geologic studies, aerial photographs, field observations or subsurface investigations. All information gathered must he acceptable by a geologist experienced in evaluating	264 18(a) 264 Appendix VI	Not Applicable	nlm	

	ct requirement	46 CLR section Nos.	373 References	tocation in application	Comments
B-3b Floodpli Documents for all cluding ance Add calculates is used techniquen 100-y	tation of whether or not the facility ted within a 180-yr floodplain inthe source of data (lederal insurantialstration Map or other maps and tions). If map other than flA map demonstration of equivalent mapping we should be provided. If located yr floodplain include:	270 14(ti)(11)(iii) 264.18(ti)	373-1.5 (a)(2)(xi)(a) 373-2.2 (j)	NA	,
• Other	special flooding factors (e.g., wave n) that must be considered to prevent				
For flo fac ate of	r facilities located within the 100-yr codplain, a description of how the cility is designed, constructed, opered, and maintained to prevent washout any hazardous waste during a flood, ther of the following may be used:	270.14(b)(11)(lv) 264.18(b)	373-1.5 (a)(2)(xi)(b) 373-2.2(j)	NIN	
B-3b(1)(a)	A structural or other engineering study showing how design of the tanks, containers, or waste piles and the flood proofing and protection devices at the facility will prevent washout including:	270.14(b)(11)(iv) (A) and (B)	373-1.5 (a)(2)(xi)(b) (1) & (2)	NIN	
	 Engineering analysis of hydro- dynamic and hydrostatic forces Structural or other engineering studies of hazardous waste units and flood protection devices 				
8-3b(1)(b)	Flood Plan Description of the procedures to be followed to remove hazardous waste to safety before the facility is flooded. The plan must address the following:	270. 14(b)(11)(1v)(C)	373-1.5 (Q)(2)(xi) (b) (3)	1/n	
	 Timing related to flood levels Estimated time to move the waste Description of the location to which the waste will be moved and proof of the receiving facility's eliqibility to receive hazardous waste 		•	,	

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	Subject requirement	40 CFR section Nos.	373 References	lucation in application	Comments
	B-3b(1)(h) (continued)				,
	 Procedures, equipment, and personnel to be used and the means to ensure that these resources will be available Potential for accidental discharge of the waste 			Nla	
8-3	3b(2) Plan for future Compliance with Flood- plain Standard	270.14(b)(11)(v)	373-1.5(a)(2)(xi)(c)		
	for facilities located within the 100-yr floodplain that do not comply with the floodplain standard, a plan showing how and when the facility will be brought into compliance. A compliance schedule must be included.				
		•			
	affic Information description of the means of transporting paradous wastes.	270.14(b)(10)	373-1.5 (a)(2)(x)	Им	
was	I facilities should describe movement of ste on the facility. Description must clude:			·	
· • 1	Estimated volume Traffic pattern				

	Subject requirement	40 CFR section Nos	373 References	Incation in application	Cumments
B-4 (continued)		The second secon		! .
,	 Traffic control Access road(s) surfacing and load-bearing capacity 				
	Off-site facilities (only) should also describe movement of waste to the facility from the point where it leaves nearest major highway.	Guldance		N/W	
PART	C - WASTE CHARACTERISTICS		Í		
C-1	Chemical and Physical Analyses	270.14(b)(2)	378-1.5 (Q)(2)(ii)	1	
	for each hazardous waste treated, stored or disposed at the facility, the following information should be provided:	264 13(a) 270 62(b)(7)(1) Guidance	373-2.2 (e)(i)	ECCHOM	
	 General description of the waste Hazardous characteristics Basis for hazard designation Laboratory report on analyses results Existing published or documented data on hazardous waste or hazardous waste from a similar process (new facilities only) 				
	At a minimum, the analyses should include all the information which must be known to treat, store, or dispose of the waste in accordance with 264 requirements.		,		
C-1	a Containers	Guidance			
	 free liquids Waste specific parameters based on hazardous designation Other information required for safe operation 				
C-1	b Janks	Guidance		"PROPOSETO MODINO	<u>.</u> •
	 Specific gravity Waste specific parameters based on hazardous designation Other information required for safe operation 			EECHON	
C-5	Waste Analysis Plan	270.14(c) 264.250	373-1.5(0)(2)(11)	" LIBSTE AMALYSIL"	
	A copy of the waste analysis plan required by 264.13(b) and, if applicable, 264.13(c). The Waste Analysis Plan should describe the procedures used to obtain chemical and physical information and data on the wastes to insure proper storage, treatment, and disposal Mini- mum requirements include	4	373 -2.2(e)(2)((3)	SECTION	

:::::=	Subject requirement	40 CER section Nos.	373 References	Loration in application	Comments
C-2a	Parameters and Rationale	264 13(b)(1)	373-2.2(e)(2)(i)		í
	A list of parameters chosen for analysis and an explanation of the rationale for their selection.			"WASTE AMALYSIS"	
C-2P	Test Methods	264. 13(b)(2)	373-2.2(e)(2)(ii)		
	A description of the test methods used to test for parameters chosen.			SECHON	•
C-2c	Sampling Methods	264. 13(b)(3)	373-2.2 (6)(2)(111)		
	A list of the sampling methods used to obtain a representative sample of each waste to be analyzed.			SECHON	
C-2a	Frequency of Analysis			WASTE WILLYSIS	
	A description of the frequency at which the analyses will be repeated. The frequency must be sufficient to ensure that the analysis is accurate and up-to-date. (for an on-site facility this will be whenever there is a process change. For an incinerator, this will be as often as required to verify consistency of the waste feed.)	264.13(b)(4) Guidance	373 – 2.2 (e)(z)(jv)	SECHON	
C-2e	Additional Requirements for Wastes Generated Offsite	264.13(b)(5) 264.13(c)	373-2.2 (e)(2)(v) 373-2.2 (e)(3)	FACILITY AND	
	A description of the procedures used to inspect and/or analyze wastes generated off-site that includes procedures to determine their identity, sampling frequency, and sampling methods used. Also, waste analysis information supplied by generator.		013-2.2 (2)(3)	section fim"	
C-21	Additional Requirements for facilities lianding Ignitable, Reactive, or incom- patible Waste	264.13(b)(6) 264.17	373-2.2(e)(2)(vi) 373-2.2(j)		
	If the facility stores or treats ignitable, reactive, or incompatible waste, a description of methods which will be used to meet the additional waste analysis requirements necessary for complying with the requiatory requirements specified in Section 1-5.				
RT D -	PROCESS INFORMATION		·		
l <u>Cor</u>	tainers				
D- la	Containers with Free Liquids				•

Subject requirement	40 CLR section Nos.	373 References	tocation in application	Comments
0-1a (continued)		·		
Description of System	2/0.15(a)	373-1.5(6)(1)	·	
A description of the containment system to demonstrate compliance with 264.175. Show at least the following:				
D-la(1) Basic Design Parameters, Dimensions and Materials of Construction	, 270.15(a)(1) 264.175(b)(1)	373-1.5(b)(i)(i) 373-2.9(f)(i)(i)	FACILITY AND OPERATION PLAN	i)
Base must underly containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed.			PROPOSED ADDIO SPILL PREVENTO SECTIONS	
D-la(2) Description of Now Design Promotes Drainage or Now Containers are Rept From Contact With Standing Liquids In Containment System	270.15(a)(2) 264.175(b)(2)	373-1.5(b)(i)(ii) 373-2.9(f)(i)Xii)		
Base must be sloped or the containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks spills, or precipitation, unless the containers are elevated or otherwise protected from contact with accumulated liquids. For this requirement, the applicant should address where applicable:	Guidance			
 Describe handling and stacking practices Grading of base Drainage design and removal system 				
O-la(3) Capacity of the Containment System Relative to the number and Volume of Containers to be Stored	270.15(a)(3)	373-1.5 (6)(1)(111)	FACILITY AND OPERATION PLAN PROPOSED ADDIS	1 /
Sufficient capacity to contain 10 percent of the volume of containers or the volume of the fargest container, whichever is greater. Information that should be included to satisfy this requiremen		373-2.9 (1) (1) (11)	SPILL PLEVENTE SECTIONS.	

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Subject requirement	40 CIR section Nos	373 References	teration in application	Comments
D-la(3) (continued)				
 Volume of largest container Total volume of containers Containment structure capacity Capacity of run-off collection system Geographic storm intensity/frequency data 				
D-la(4) Provisions for Preventing or Managing Run-on Run-on into the containment system must be prevented unless the col-	270.15(a)(4) 264.175(h)(4)	373-1.5(b)(i)(iV) 373-2.9(f)(i)(iV)	"PROPOSES MODIFICATION	NSV
tection system has sufficient excess capacity in addition to the 10 per- cent minimum to contain any run-on which might enter the system. The applicant should discuss structures	Guidance			
used to control num-on such as: * Containment system auxiliary structures (curbs, dikes, etc.) * Engineering grading dusign * Collection and removal system design capacity * Potential run-on				
D-la(5) How Accumulated Liquids Can be Analyzed and Removed to Prevent Overflow	- 270.15(a)(5) 264.175(b)(5)	373-1.5(b)(1)(v) 373-29(f)(1)(v)		
Spilled or leaked waste and accumulated precipitation must be removed from the sump or collection area in a timely manner as is necessary to prevent overflow of the collection system. Information that should be included is:	Guidance			
 How liquids will be analyzed Removal equipment and methods (sump pump design, piping specifications, location, discharge point, and capacity) Management of accumulated liquid including prevention of overflow. 				
P-1b Containers Mithout Free Liquids For storage areas that store containers holding wastes that do not contain free liquids, a demonstration of compliance with 264.175(c) including.	270. 15(b)	373-1.5 (b)(2)		

Subject requirement	40 CFR section Nos.	373 References	foration in application	Comments
D-1b(1) lest for free Liquids	270.15(6)(1)	373-1.5 (b)(2)(i)		
Test procedures and results or other documentation or information to show that the wastes do not contain free liquids.				
D-1b(2) Description of Storage Area Design and Operation to Drain and Remove Liquids or How Containers Are Kept from Contact With Standing Liquids	270. 15(b)(?)	373-1.5(6)(2)(11)	~/~	
Containment system <u>not required</u> if:				
Storage area sloped or otherwise designed and operated to drain and remove liquid resulting from	264.175(c)(1)	373-2.9(f)(2)j)		
precipitation, or Containers elevated or otherwise protected from contact with accumulated liquid	264.175(c)(2)	373-2.9(f)(2)(ii)		
lc Requirements for Ignitable or Reactive Wastes and Incompatible Wastes	270.15(c)	373-1.5(6)(3)		
 Sketches, drawings, or data demon- strating compliance with 264-176 and 264-177(c), where applicable 			"FACILITY AND OPERATON PLAN" SECTION	
 Containers holding lynitable or reactive waste located at least 15 meters (50 feet) from facility 	264. 176	373-2.9(g)	(BUFFALO SERVICE)	
property line **Containers holding hazardous wastes incompatible with waste or materials stored nearby must be separated from	264.177(c)	378-2.9(h)(3)		
the other materials or protected from them by means of a dike, berm, wall, or other device				,
 Where incompatible wastes are stored or otherwise managed in containers, a description of the procedures used to ensure compliance with 264.177(a) and (b) and 264.17(b) and (c) 	270. 15(d)	373-1.5(b)(4)		
• Incompatible wastes must not be placed in same container unless 264.17(b) compiled with	264.177(a)	373-2.9(h)(1)		
• Hazardous waste must not be placed in unwashed container that previously	264. 177(b)	373-2.9(h)(2)	·	
held incompatible waste or material Precautions to prevent reactions which 1) generate extreme heat, pressure, fire, or explosions, or violent reactions, 2) produce uncontrolled	264.17(b)	373 - 2.E(i)(2)		
toxic mists, fumes, dusts, or gases in sufficient quantities to threaten				

Subject requirement	40 CFR section Nos	373 References	location in Application	Coments
D-Ic (continued)				
human health or the environment, 3) produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions, 4) damage the structural integrity of the device or facility, 5) through other means threaten human health or environment				
* Documentation of compliance with 264.17(b) based on references to published scientific or engineering literature, data from trial tests, waste analysis, or results of treatment of similar wastes by similar treatment processes and under similar operating conditions	264 17(c)	373-2.2(1)(3)		
O-1d Container Managemen: Type of containers and construction material should include liners (if	264.371, 264.172 264.173	373 - 2.9 (b) 373 - 2.9 (c) 373 - 2.9 (d)	HAZNEBOUS	0~1
applicable) manufacturer specifi- cations, dimensions			TLAM" SECTIO	İ
 Procedures for handling to avoid rupturing or leaking 	.]		SPILL PLEVEN	MON "
 Weekly inspections for deterioration 		• .	sout on	
caused by corrosion or other factors * Machinery, equipment, procedures used				
to move containers Adequate misle space for machinery, inspections, and to meet applicable		·		
codes (f.e., fire). * Maximum number, height, volume, and				
types of containers in storage area * Maste container always kept closed during storage except when adding or				
<pre>removing waste tocation of ignitable, reactive, and imcompatible waste</pre>				
D-2 Tanks		* 373-2.10(a)	"	
D-2a Description of lanks	270.16	#373-1.5(c)	PROPOSED AD	#1110418
Description of design and operation pro- cedures which demonstrate compliance with the requirements of 264,191, 264,192, 264,1 and 264,199 including:	90		"SPILL PRESS	
 References to design standards or other available information used in design and construction 			(DOWNING)	

	Subject requirement	40 CIR section Mas.	313 References	tocation in application	Comments
D-20	(continued)				
	* Design specifications including construc-				
	tion materials and lining materials, including			1.	
	pertinent characteristics such as corrusion erosion resistance	gr I		į	i '
	· lank dimensions, capacity, shell thickness	1			
	* Diagram of piping, instrumentation, process				1
	flow	1		1	
	* Description of feed systems, safety cutoff,	1	,	1	1
	bypass systems, and pressure controls * Description of procedures for handling			1	
	incompatible, ignitable, or reactive				
	wastes, including the use of buffer	1	•		
	zones		•	(·	{
	* Types and number of tanks	Guldance	373-2.10(bX1)		
	 Tank Internal pressure and pressure con- trols 	264. 191(a)	0.34 E.10(0 X1)		1
	* foundation construction, specifications,	264. 191(a)	64	ļ	
	and structural supports			<u> </u>	
	* Specific gravity or tank liquids	264.191(a)	, 16		
	• lank design standard code and year	Guldance			İ
	 Specifications on seams (Include type) Operating pressure and temperature 	Guldance Guldance		İ	
	* Type of waste contained in tanks	Guidance		.	
•	* Maximum height of liquid level	Guidance			,
		1,,,,,,,			
3 - <i>2</i> b	tank Corroston and Eroston	270 16(b) 264 192(a)	373-1.5(c)(2)	W 70000 - 5	Í
	A review of the pertinent characteristics	1""	373 -2.10(c)(i)	PROPOSED	
	of the tank construction material and		•	MODINON EFECT	0/2
	lining materials to determine corrosion	1.		1	į
	or erosion effects with wastes and other	i l	•		
	materials (i.e., treatment reayents).	1		1	1
	The applicant should also address: Description of lining and cualing	270.16(b).			· ·
	materials	264. 192(a)	373-1.5(c)(2)		1
	* Corrosion allowance and corrosion and	1	373 - 2.10(c)(1)	1	
	erosion rates.			l l	· ·
	• Demonstration of how minimum shell	264.191(a)	373-2.10(6)(1)		}
	thickness will be maintained * Tank construction compatibility with waste	264.17(c)	373-1.5(c)(3)	.	1
	and tests or documentation to substantiate		3.3-1.0(0)		
	' compatibility				1
	 Description of treatment reagents 	264.192(a)	373-2.10(c)(1)	Í	
- 20	Tank Management Practices	270.16(d) and (e)	475-1 E/-X/AMA:	1.	
- 20	Talla Hallagement Tractices	264 197(b)	373-1.5 (c) (4) ((5)	"PROPOSED ADD	Mon
	A description of the tank owner's or oper-		373 - 2.10(c)(2)	Section	
	ator's operating practices and controls:				
	O Description of contacts to account seems	264. 192(b)(1)	172-2 14/0/02/2	SPILL PREJEN	Hon'
	 Description of controls to prevent over- filling and overtopping such as waste 	704.137(0)(1)	373-2.10(c)(2)(i)	Section	
	feed cut-off system(s), by pass or standby			Section	
	THE THE THE TREE SPECIAL TREE TO BE THE TOTAL TOTAL TREE				•

Subject requirement	4I) CFR section Nos	373 References	location in application	Comments
D-2c (continued)				
 Demonstration of maintenance of sufficient freeboard to prevent overtopping by wave or wind action or precipitation for 	264 192(6)(2)	373-2.10 (0)(2)(11)		<i>,</i>
uncovered lanks • Piping, instrumentation, and process flow	`270.16(d)	373-1.5(0)(4)		·
<pre>diagrams Bescription of tank instrumentation such as pressure, temperature, pli, level gauges and monitors</pre>	270 16(e)	d73-1.5 (c)(5)		·
* Description of safety devices such as rupture discs and safety vents	270 16(e). 764 191(a)	373-1.5(c)(s) 973-210(b(i)		
D-2d Regulrements for Ignitable or Reactive Wastes	264 198	973-2.10(f)		
Procedures for treating, mixing, rendering before or immediately after placement in tank so that resulting material no longer meets definition	264.19B(a)(1)	373-2.10(1)(1)	PROPOSUD NO	
of ignitable or reactive waste, or Procedures for storage/treatment to protect from ignition or reaction, or	264.198(a)(2)	373 - 2.10(1)(1)(11)	DRAMINGS ST	crion
 Designation of tank solely for emergencies Demonstration of buffer zone requirements if stored in covered tanks 	264 198(a)(3) 264 198(b)	373 - 2.10 (f) (1) (iii) 373 - 2.10 (f) (2)		
D-Ze Requirements for Incompatible Wastes	264 199	373-2.10(9)	·	
 Description of procedures to prevent placing incompatible wastes in same tank 	264 199(a)	373 -2.10(9)(1)		
 Precautions against placing waste in unwashed tank previously holding incompatible waste. 	264.199(6)	373-2.10 (9(2)		
0-2 F Requirements for Containment		* 373-2.10(h)		
	} :			
			į	

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Subj	ect requirement	40 CFR section Nos	375 References	toration in application	Comments
			,		•
				,	
PART F - PROCE	DURES TO PREVENT HAZARDS		373-1.5(a)(2)(iv)		
f-1 Security				"SECURITY" SECT)
F-la Secur	ity Procedures and Equipment	264.14 122.25(a)(4)	373-2.2(f)		
must	s a waiver is granted, the Part B Include a description of the Ity procedures and equipment required .14:				
F-1a(1) 2	4-Hour Surveillance System	264.14(b)(1)	373-2.5(1)(2)(1)		
t b c	24-hour surveillance system (e.g., elevision monitoring or surveillance y guards or facility personnel) that ontinuously monitors and controls ntry onto the active portion of the acility:				
	Procedures and personnel to be used Location and description of equipment	Guidance Guidance		÷	
F-1a(2) B	arrier and Means to Control Entry	264.14(b)(2)(†)	873-2.2 (5)(2)(11/2)		
Š	In lieu of a 24-hour surveillance ystem, the applicant may elect to se a barrier and other means to ontrol entry.)				
F-1a(2)(a) <u>Barrier</u>				
	An artificial or natural barrier (e.g., a fence in good repair or a fence combined with a cliff) that completely surrounds the active portion of the facility:				
	 Height Material of construction 	Guidance Guidance			
F-1a(2)(b) Means to Control Entry	264.14(b)(2)(11)	373-E. E(F)(2)(ii)(b)		
	A means to control entry, at all times, through the gates or other entrances to the active portion of			1	14 ₁

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Subject regulrement	section Nos.	373 References	Application	Comments
F-la(2)(b) (continued)				
the facility (e.g., an attendant, television monitors, locked entrance, or controlled roadway access to the facility):				
 Procedure and personnel to be used Location and description of equipment 	Guidance Guidance	;		
F-la(3) Warning Signs	264. 14(c)	373-2.2 (1)(3)		
The facility must have a sign with the legend, "Danyer - Unauthorized Personnel Keep Out", which must be posted at each entrance to the active portion of the facility and at other locations, in sufficient numbers to be seen from any approach to the active portion. The legend must be written in English and in any other language predominant in the area surrounding the facility and must be legible from a distance of at least 25 ft. Existing signs with a legend other than "Danger - Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion and that entry onto the active portion can be dangerous.				•
F-1b Waiver	264. 14(a)	373 - 2.2(1)(1)		
<pre>if a waiver of these requirements is requested, the owner or operator must demonstrate the following:</pre>				
f-lb(1) <u>Injury to Intruder</u>	264.14(a)(1)	373-2.2(f)(1)(i)	· · ·	
Physical contact with the waste, structure, or equipment within the active portion of the facility will not injure unknowing or unauthorized persons or livestock that may enter the active portion of a facility; and				
1-1b(2) Violation Caused by Intruder	264.14(*)(2)	373-2.2(5)(1)(11)		
Disturbance of the waste or equipment by the unknowing or unauthorized entry of persons or livestock onto the active		-	•	

	Subject requirement	40 CFR section Nos	373 References	tocation in application	Comments
	F-1b(2) (continued)				:
	portion of a facility will not cause a violation of the requirements of 40 CFR Part 264.				
	Note: To address F-1b(1) and F-1b(2) the applicant should include:	Guidance	•		•*
	 Mature and duration of hazard potential from wastes Equipment and structures to minimize potential for an intruder to i) cause a spill; 2) mix incompatible wastes; 3) ignite ignitable or reactive wastes; 4) damage containment or munitoring systems Features that prevent contact with waste 				
F-2	Inspection Schedule	270.14(b)(5)	373-1.5 (a)(2)(v)		
	A copy of the general inspection schedule required by 264.15(b) including, where applicable, specific requirements of 264.174, 264.194, 264.226, 264.254, 264.273, 264.303, and 264.347.	264. 15	373 - 2.2 (3)	"HAZ. WAETE INSPECTION SECTION "CONTINGENCY	
F-2a	General Inspection Requirements A description of the facility inspection schedule (schedule must be kept at the facility) for the following equipment:	270.14(b)(5) 264.15(a) and (h)	373-1.5(9)(2)(v) 373-2.2(9)(1)(2)	RECTION BULL BREVENTION FENER GENCY PLAN CONTINUED	, "
	 Monitoring equipment Emergency and safety equipment Security devices Operating and structural equipment that are vital to prevent, detect, or respond to environmental or human health hazards. Testing as necessary of communications or 	264.15(a) and (b)	373-2.2 (9) (1) (2)	ZECHON	
	alarm systems, fire protection equipment and decontamination equipment	264.33	373 - 2.3 (4)		·
	Examples of monitoring equipment that should be inspected at treatment, storage, and disposal facilities are:	Guidance			
	• Scales • Flow and liquid level monitors • Hazardous gas detectors • pH monitors • Leachale monitors • Pressure sensors • Lemperature ganges				

Subject requirement	40 CFR section Hos	373 References	tocation in application	Cumments
2a (continued)				
Examples of monitoring equipment that should be inspected at facilities with incinerators are:	Guidance			
 Waste flow monitors and recorders Auxiliary fuel flow monitors Combustion air flow monitors Temperature monitors Flame sensors 				,
 CO monitors and recorders Pressure differential indicators Pressure sensors 				
 pli monitors Anmeters for measuring blower current draw 	, ,			
Examples of safety and emergency equipment to be inspected at ISD facilities are:	Guidance			,
 Respirators Communication systems Alarm systems 	, '			
 Emergency lighting and power systems Smoke detectors Fire protection equipment 				
 First aid equipment and supplies Decontamination equipment Protective clothing 		f.		
Examples of security devices to be inspected at ISD facilities are:	Guidance			
 Surveillance systems Barrier surrounding facility tocking devices 				
Examples of operating and structural equipment at ISD facilities are:	Guidance			
 Spill detection devices Spill control and collection equipment Fire and explosion barriers Ventilation equipment Sump pumps Dikes, bases, and foundations 				
In addition, areas such as waste storage, mining, loading, and unloading areas, which are subject to spills, must be inspected.				
f-2a(1) Types of Problems	264. 15(b)(3)	373-2.2 (3)(2)(11)		
The schedule must identify the types of problems to look for during the inspection (e.g., leaks, deterioration,			i i	

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Subject	t requirement	40 CFR section Nos	373 References	Incation in application	Comments
f-2a(1) (cont	t inued)				
sing	dings out of specified range, mis- g items or materials, inoperative ipment, etc.).				
F-2a(2) freq	quency of Inspection	264.15(b)(4)	373 - 2.2 (g)(2)(iv)		
frec ites quer bass oral ity inci	escription of the inspection quency must be provided for ms on the schedule. The fre- ncy of inspection should be ed on the rate of possible deteri- tion of equipment and the probabil- of an environmental or human health ident if the deterioration, malfunc- i, or operator error goes undetected				: ,
bet» spil	reen inspections. Areas subject to its, such as loading and unloading is, must be inspected daily when in				
•					
	# 10 pt 10 p				
2b Specific	Process Inspection Requirements				
include t tor in 26	mum, the inspection schedule must the terms and frequencies called 4.174, 264.194, 264.226, 265.253, 264.303 and 264.347, where appli-	2/0.14(b)(5) 254.15(b)(4)	373-1.5(a)(z)(v) 373-2.7(g)(2)(iv)	Section PLAN	
F-2b(1) Cont	ainer Inspection	264. 174	373-2.9(e)		
of c area iora ment	scription of the weekly inspection ontainers and container storage is for leaks in containers or determinent of containers and the containers system caused by corrosion or other ors.				
F-26(2) <u>lank</u>	Inspection	264.194	373-2.10(d)		
of ma of A ol	description of the daily inspection overfilling control equipment, initoring equipment and level of waste in uncovered tanks description of the weekly inspection tank construction materials and the ea surrounding the tank				

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Subject requirement	40 CTR section Nos	373 References	tocation in application	Comments
2b(2) (continued)				
A schedule describing the daily muni- toring of munitoring equipment (e.g., pressure and temperature gauges) where present to ensure that the tank is operated according to design specifications				
 A schedule showing the level of waste in uncovered tanks is impsected daily A schedule and procedure for assessing the condition of the tank, including detection of leaks, cracks, or wall thinning to less than minimum shell 	· ·			
thickness A procedure for emptying a tank to allow entry and inspection when necessary to detect corrosion or erosion of the tank sides and buttom				
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L -1-17	Subject requirement	40 CFR	373 References	tocation in application	Comments
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f-2c	Remedial Action	264.15(c)	375- E. 2(g)(3)	u	
	A description of procedures for taking remedial actions when inspections reveal problems or when problems are imminent. [These may alternately be described in the contingency plan (see 264.194(c), 264.227, 264.171)].			"CONTINUENCY FLAN" SECTION	
F-2d	Inspection Log	264.73(b)(5) 264.15(d)	373-2.5(d)(e)	" INSTECTION PLAN"	
	A copy or description of the inspection log or summary form including the following:		373-2.2 (9)(4)	SECHON PERM	
	 Dates and times of inspections Name(s) of inspector(s) Observations made Date and nature of repairs or remedial actions taken 				
	iver of Preparedness and Prevention Require- nts	270. 14(b)(6)	373 - 1.5(a)(a)(vi)		
- of	justification of any request for a waiver preparedness and prevention requirements Part 264, Subpart C.				
F-3a	Equipment Requirements	264.32	373-23(4)		
	Unless it can be demonstrated that none of the hazards posed by waste handled at the facility could require a particular kind of				

	bject requirement	40 CLR section Nos.	373 References	toration in application	Comments
F-3a (cont					
equi have ment	pment specified below, the facility must the following equipment: (These requires are not specifically listed in 270.14- 29 for inclusion in a Part 8.)				
F-3a(1)	Internal Communications	264. 32(a)	375 - 2.3(2767)		
	An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel.	·			
F-3a(2)	External Communications	264. 32(b)	375-2.3 (c)(2)		j
	A device such as a telephone (immediately available at the scene of operations) or a handheld two-way radio, for summuning emergency assistance from local police departments, or state or local emergency response teams.				
f-3a(3)	Emergency Equipment	264. 32(c)	373-2.3(c)(3)		
	 fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals and portable fire extinguishers Spill control equipment Decontamination equipment 				
F-3a(4)	Water for Fire Control One of the following:	264. 32(d)	373-2.3(c)(4)		
	 Water at adequate volume and pressure to supply water hose streams, or foam-producing equipment, or Automatic sprinklers or water spray systems 				
F-3b Alsle	e Space Requirement	264. 35	373-2.3(f)		
requi demoi needs of po or sp	ests for a walver of the <u>aisle space</u> irement must be accompanied by a nistration that aisle space is not ned to allow the unobstructed movement ersonnel, fire protection equipment, pill control equipment to any area of lity operation in an emergency.				

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Subject requirement	40 CFR section Nos.	373 References	Loration in application	Comments
F-4. Preventive Procedures, Structures, and Equipment	270. 14(tr)(8)	373-1.5(a)(2)(vill)	·	
A description of procedures, structures, or equipment used at the facility for the following must be included:				
F-4a Unloading Operations				
Prevention of hazards in unloading oper- ations (e.g., use of ramps or special forklifts).	270. 14(b)(8)(i)	373-1.5(a)(2)(viii) (a)	•	
F-4b Runoff				
Prevention of runoff from hazardous waste handling areas to other areas of the facility or environment, or prevention of flooding (e.g., berms, dikes, trenches).	270.14(b)(8)(ii)	373-1.5(a)(z)(vni)(b)		
F-4c Water Supplies				
Prevention of contamination of water supplies.	270.14(b)(8)(iii)	373-1.5(a)(2)(viii)(c)		
F-4d Equipment and Power Failure				
Mitigation of effects of equipment fail- ure and power outages.	270.14(a)(8)(iv)	373-1.5(4)(2)(4)(4)		
f-4e Personnel Protection Equipment				•
Prevention of undue exposure of personnel to hazardous waste (e.g., protective clothing).	270.14(b)(8)(v)	373-1.5(a)(2)(/ii)(e)	·	
F-5 Prevention of Reaction of Ignitable, Reactive and Incompatible Wastes				
F-5a Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Waste	270.14(b)(9) 264.17(a) and (c)	373-1.5(a)(2)(ix) 373-2.2 (i)(i)2(3)		
A description of the precautions taken by a facility that handles ignitable, reactive or incompatible waste to demonstrate compliance with 264.17 including documentation demonstrating compliance with 264.17(c). Precautions to prevent actual ignition, including separation from sources of ignition such as open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., heat producing chemical reactions), and radiant heat. Demonstration that when ignitable or reactive waste is being handled, the owner or	·		•	

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	Subject requirement	40 CER section Hos.	373 References	toration in application	Comments
f -5a	(continued)				
	operator cunfines smoking and open flames to specially designated locations. "No Smoking" signs must be conspicuously placed wherever a hazard exists from ignitable or reactive waste.				
F-5b	General Precautions for Handling Ignitable or Reactive Waste and Mixing of Incompatible Waste	270.14(b)(9) 264.17(b) and (c)	315-1.5(a)(2)(ix) 513-2.2(i)(2)(3)		
	A description of the precautions taken by a facility that treats, stores, or disposes of ignitable or reactive waste, or accidentally mises incompatible waste or incompatible wastes and other materials, to prevent reactions which: (1) generate extreme heat or pressure, fire or explosions or violent reactions; (2) produce uncontrolled flammable fumes, dusts, or gases in sufficient quantities to threaten human health or the environment; (1) produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions; (4) damage the structural integrity of the device or facility; (5) by similar means threaten human health or the environment.				
	Documentation to meet requirements of 264.17(a) or (b) may be based on references to published scientific or engineering literature, data from trial tests, waste analyses, or results of treatment of similar wastes by similar treatment processes and under similar operating conditions.	264.17(c)	373-2.2(1)(3)		
-5c	Hanagement of Ignitable or Reactive Wastes In Containers	270.15(c) 264.176	373-1.5(b)(3) 373-2.4(9)		
	Sketches, drawings, or data demonstrating that containers of ignitable or reactive waste are located at least 15 meters (50 feet) from the facility's property line.				
-5d	Management of Incompatible Wastes in Containers	270 · 15(d) 264. 177(a)	373-1.5(b)(4) 373-2.9(h)(1)		·
	A description of procedures to demonstrate compliance with 264.177(a) and (b) and 264.17(b) and (c).	·			

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In lanks A description of the procedures for hanling incompatible, ignitable, or reactive wastes, including the use of buffer zones. 264 requirements include: * Waste must be treated, rendered, or mixed before or immediately after placement in the tank so that it is no longer considered ignitable and compiles with 264.17(b); or the waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to react or ignite; or the tank is used solely for emergencies * Facilities that treat or store ignitable or reactive waste in covered tanks must capply with the National Fire protection Association's buffer zone requirements for lanks	Subject requirement	40 CFR section Nus	373 References	Location in application	Comments
incompatible wastes and materials are not placed in the same container (unless 266.17(b) is compiled with) or in an unwashed container that previously held incompatible waste 5 likes, berms, waits, or other devices used to separate wastes in containers, piles, upon tanks, or surface impoundments F-Se Management of Ignitable or Reactive Mastes In 1808. A description of the procedures for handing incompatible, ignitable, or reactive wastes, including the use of buffer rones. 264 requirements include: * Maste must be treated, rendered, or mised before or inmediately after placement in the tank so that it is no longer considered ignitable and compiles with 704.17(b); or the waste is stored or treated iron any material or conditions that may cause the waste to react or ignite; or the tank is used solely for emergencies. * Facilities that treat or store facilities that treat or store ignities; or the tank is used solely for emergencies and compile waste in covered tanks must comply with the Mational Fire protection Associations's buffer none requirements for lanks. A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or naterial	f-5g (continued)	·			•
A description of the procedures for hanling incumpatible, synitable, or reactive wastes, including the use of buffer zones. 264 requirements include: * Maste must be treated, rendered, or mixed before or inmediately after placement in the tank so that it is no longer considered ignitable and compiles with 264.17(b); or the waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to react or ignite; or the tank is used solely for emergencies * Facilities that treat or store ignitable or reactive waste in covered tanks must comply with the National Fire protection Association's buffer zone requirements for tanks A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material	incompatible wastes and materials are not placed in the same container (unless 264.17(b) is compiled with) or in an unwashed container that previously held incompatible waste. Dikes, berms, walls, or other devices used to separate wastes in containers, piles, upen tanks, or surface impound-	264. 177(b)	373-2.9(h)(2)		
ling incorpatible, lynitable, or reactive wastes, including the use of buffer zones. 264 requirements include: * Waste must be treated, rendered, or mixed before or immediately after placement in the tank so that it is no longer considered ignitable and compiles with 264 17(b); or the waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to react or ignite; or the tank is used solely for emergencies * Facilities that treat or store (gnitable or reactive waste in covered tanks must comply with the Nationa) Fire protection Association's buffer zone requirements for tanks F-5f Incompatible Mastes in Tanks A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material					
mined before or immediately after placement in the tank so that it is no longer considered ignitable and compiles with 764.17(b); or the waste is stored or treated in such a way that it is pro- tected from any material or conditions that may cause the waste to react or ignite; or the tank is used solely for emergencies Facilities that treat or store ignitable or reactive waste in covered tanks must comply with the National Fire protection Association's buffer zone re- quirements for tanks A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material	ting incompatible, ignitable, or reactive wastes, including the use of buffer zones.	270.16(b)	373-1.5(0)(6)		
Facilities that treat or store ignitable or reactive waste in covered tanks must comply with the National Fire protection Association's buffer zone requirements for tanks F-5f Incompatible Wastes in Tanks A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material 264.198(b) 373-2.10(f)(2) 373-1.5(c)(6) 373-2.10(g)(A)	mixed before or immediately after placement in the tank so that it is no longer considered ignitable and complies with 264.17(b); or the waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to react or ignite; or the tank is used solely for	264. 198(a)	373 - 2.10(f)(1)		·
A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material	 Facilities that treat or store ignitable or reactive waste in covered tanks must comply with the National Fire protection Association's buffer zone re- 	264. 198(b)	373-2.10 (f)(2)		
	A statement that incompatible wastes and materials are not stored in the same tank or in an unwashed tank that previously held an incompatible waste or material				
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	40 CFR section Nos.	313 References	tocation in	Comments
Subject requirement	Section nos.	313	ирриссестоп	. (0
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		<i>'</i>		
	270, 20(d)(8) 265, 282			
	264.17(6)			
PART G - CONTINGENCY PLAN	270.14(b)(7) 264.50 through 264.56	373-1.5 (a)(2)(vil)	"CONTHIPENCY	
A copy of the contingency plan required in Part 264, Subpart D. Include, where applicable, specific requirements in 264.227 and 264.255.	264. 30 through 264. 30	373 - 2.4	PLAM" SECTION	
An existing spill prevention control plan can be amended to incorporate hazardous waste management provisions sufficient to comply with 264, Subpart D requirements.	264(51)(b)	373 - 2.4 (c)(z)		
G-1 General Information	264.52	373-2.4(6)		
 Facility name and location and owner or operator name Site plan Description of facility operations 				
G-2 Emergency Coordinators	264.52(d)	373-2.4(0)(4)		
Names, addresses, office and home phone numbers, and duties of primary and afternate coordinators in sequence as afternates	264.55	373-2.4(4)	1	

Subject requirement	40 CFR section Mos.	373 References	toration in application	Comments
-2 (continued)				
 A statement authorizing designated coordina- tors to commit the necessary resources to implement the contingency plan 				
3 Implementation	264.52(a)	373-2.4(c)(i)		
Criteria for implementation of contingency plan for any potential emergency	264.56(d)	373-2.4(9)(4)	:	,
 fires/explosions Unplanned sudden or non-sudden release of hazardous waste or hazardous waste consti- tuents to air, soil, or surface water 				
4 Emergency Response Procedures		1	,	
G-4a Notification	264.56(a)	373-2.4(9)(1)	"CONTINUENCY PL	Regra N
Methodulogy for immediate notification of facility personnel and necessary state or fucal agencies.			*ECHON	
G-4b Identification of Hazardous Materials	264.56(b)	373-2.4 (9)(2)		
Available data and/or procedures for identification of hazardous materials involved in the emergency and quantity and areal extent of release. Include information on:				
 Characteristics of waste Exact source Amount Areal extent of release 				
 G-4c Hazard Assessment Procedure for assessment of possible hazards to the environment and human health 	264.56(c) 264.56(d)	373-2.4(9)(3) 373-2.4(9)(4)		
Procedure for determining the need for evacuation and notification of authori- ties. The authorities to be notified must include the On-Scene-Coordinator for that area or the National Response Center		·		
G-4d <u>Control Procedures</u>	264.52(a)	373-2.4(0)(1)		
Specific responses and control procedures to be taken in the event of a fire, emplosion, or release of hazardous waste to air, land, or water			,	

	Subject requirement	40 CIR section Nos.	373 References	tocation in application	Coments
G-4e	Prevention of Recurrence or Spread of fires, Employions, or Releases	264.56(e)	373-2.4(4)(5)		
	During an emergency situation, a description of the necessary steps to be taken to ensure that fires, emplosions, or releases do not occur, reoccur, or spread to other hazardous waste at the facility. Steps must include, where applicable:				
	 Shut-down of processes and continued monitoring of them Collecting, containing, and treeating released wastes Removing and isolating containers 	•			
	Proper use of fire control structures (e.g., fire doors), systems (e.g., sprinkler systems), and equipment (e.g., extinguishers)	Guidance			
G-41	Storage and freatment of Released Material	264.56(g)	373-2.4(9)(7)		
	 Provisions for treatment, storage, or disposal of any hazardous waste result- ing from a release, fire, or explosion at the facility Equipment available 	Guldance			
	 Procedures for deployment of these resources Methods to contain, treat, and clean up a hazardous release and decontaminate the affected area 	Guidance Guidance			
G-4g	Incompatible Waste	264.56(h)(1)	373-2.4(q)(8)(i)		
	Provisions for prevention of incompatible waste from being treated, stored, or located in the affected areas until cleanup procedures are completed.				
G-4h	Post-Emergency Equipment Maintenance	264.56(h)(2)	373-2.4 (g)(8)(ii)		
	Procedures for ensuring that all emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.				
G-41	Container Spills and teakage	264 56(q) 264 171	373-2.4(gx7) 373-2.9(4)(5)		
	Procedures for responding to container spills or leakage including removal of spilled waste and repair or replacement of containers.	204. 171	313-5.4.(1)(2)		
G-43	Tank Spills and Leakage				
. 74 -	Procedures for responding to tank spills or leakage including removal of spilled waste and repair of tank.		373-2.4 (g)(7) 373-2.10(d)(3)		

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Subject requirement	40 CFR section Nos	373 References	toration in application	Comments
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G-5 Emergency Equipment	264 52(e)	378-2.4(c)(5)		
tocation, description, and capabilities of emergency equipment. This should include:			CONTINGENCY 4	
 Spill control equipment fire control equipment Personnel protective items such as respirators and protective clothing first aid and medical supplies twergency decontamination equipment Emergency communication and alarm systems 			SECTION	
G-6 Coordination Agreements			4	
A description of coordination agreements with local police and fire departments, hospitals, contractors, and state and local emergency response teams to familiarize them with the facility and actions	264.37 264.52(c)	373-2.3(g) 373-2.4(c)(3)	SECYON SECYON SECYON	~
needed in case of emergency A statement indicating that a copy of the contingency plan has been submitted to these organizations 	264 51(h)	373 - 2.4(4)(2)		
"If applicable, documentation of refusal to enter into a coordination agreement	264. 37(b)	373-2.3(9)(2)		

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	Subject requirement	40 CFR section Hos.	978 References	tocation in application	Comments
G-1	Evacuation Plan	264.52(1)	373-2.4(0)(6)		
	The plan must include:				
	 Criteria for evacuation A description of signal(s) to be used to begin evacuation Primary and alternate evacuation routes 				
G-8	Regulred Reports	264.56(j)	373 - 2.4 (9)(10)		
	 Provisions for submission of reports of emergency incidents within 15 days of occurrence Notation of such incidents in the oper- ating record identifying the time, date, and details of these emergency incidents 				
ī	H - PERSONNEL TRAINING	270 14(h)(12) 264 16	373-1.5(9)(2)(xii) 373-2.2(h)	"TRAILING" STO	011
	Outline of Training Program		770 . 500 610		
	An outline of both the introductory and continuing training programs by owners or operators to prepare the personnel to operate and maintain the facility in a safe manner as required to demonstrate compliance with 264.16. Include a brief description of how training will be designed to meet actual job tasks in accordance with requirements in 264.16(a)(3). (Note: On-the-job training may be used to comply with these requirements.)	270.14(b)(12)	373-1.5(0)(2)(xil)		
H-;	In Job lities and Dutles For each employee whose position at the facility is related to hazardous waste management, the following must be maintained at the facility: * Job title	264. 16(d)(1) 264. 16(d)(2)	313-2.2 (h)(4(i) 373-2.2 (h)(4)(ii)	"TRAMING" SECT	> 4
	• Job dutles • Jub description				
н-	In both introductory and continuing training (including an annual review of the initial training) for <u>each</u> employee describe:	264. 16(d)(3) 264. 16(c)	373-2.2(h)(3)	"TRAINING" SECTION	N
	 Training content frequency of training fectorique(s) used in training 				

	Subject requirement	40 CIR section Nos.	373 References	tocation in application	Comments
H-Jc	fraining Director	264.16(a)(2)	373-2.8 (h)(101)		
	Demonstration that the program is directed by a person trained in hazardous waste management.				
	• Credentials of training director	Guidance			
H-14	Relevance of fraining to Job Position	264 16(a)(2)	373-2.2 (4)(1)(1)		
	A brief description of how instructions of facility personnel in hazardous waste management procedures (including contingency plan implementation) is relevant to their positions. [Io demonstrate compliance with 264.16(a)(2).]				
H-le	Training for Emergency Response	264.16(a)(3)	373-2.2(h)(1)(iii)	"TRAINING" SECTION	
	Documentation that the training program trains facility personnel to respond effectively to emergencies and trains them to be familiar with emergency procedures, emergency equipment, and emergency systems, include where applicable:			CONTINUENCY & EMERCENCY PLANII SECTION	
•	Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment Key parameters for autumatic waste feed cutoff systems Communications or alarm systems Response to fires or explosions Response to groundwater contamination incidents Shutdown of operations plementation of Iraining Program Indication that training has been and will be successfully completed by facility personnel within 6 months of their employment or assignment to a facility, or transfer to a new position at a facility, whichever is later. (Note: employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the train-	264.16(a)(3)(i) 264.16(a)(3)(ii) 264.16(a)(1)(iii) 264.16(a)(1)(iv) 264.16(a)(3)(v) 264.16(d)(4) 264.16(h)	373-2.2(h)(i)(ii)(a) 373-2.2(h)(i)(ii)(b) 373-2.2(h)(i)(ii)(d) 373-2.2(h)(i)(ii)(d) 373-2.2(h)(i)(ii)(t) 373-2.2(h)(i)(ii)(t) 373-2.2(h)(i)(ii)(t) 373-2.2(h)(i)(ii)(t)	TRAINING SECHO	
• (ing requirements.) Records documenting that the required training has been given to and completed by facility personnel must be maintained				

Subject requirement	40 CIR section Has	373 References	tocation in application	Comments
PART 1 - CLUSURE PLANS, PUSTCLOSURE PLANS, AND FINANCIAL REQUIRIMENTS	270.14(b)(11); 270.14(b)(15) 270.14(b)(16) 270.14(b)(17) 270.14(b)(18) 264.110.264.115 264.151, 264.178, 264.197	373-1.5(a)(2)(x1i) 375-1.5 (a)(2)(xv- xvii) 37 3- 2.7(a)-(f) 373-2.9(i) 373-2.10(e)		
1-1 Closure Plans A copy of the written closure plan required by 264.112 and consistent with Items 1-1a through 1-1f.	270.14(b)(13)	375-1.5(a)(2)(xiii)	CLOSURE N	
Where applicable, the specific requirements in 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, and 264.351, must be included.				
I-la Closure Performance Standard A description of how closure Minimizes the need for postclosure maintenance Minimizes or eliminates releases of hazard ous wastes, hazardous waste constituents, leachate, and contaminated rainfall to the air, groundwater, surface water, and surrounding land		313 - 2.7 (b) 373 - 2.7 (c)		
1-1b Partial Closure and final Closure Activities If partial closure is anticipated, a description of how and when the facility will be partially closed, including an identificatio of the maximum extent of operation after partial closure. Also, a description of how and when the facility will be finally closed Description must identify how requirements of 264.111, 264.113, 264.114, 264.115 and	(264.112(a)(1) - through 264.112(a)(4) n outline mini- mum accept- able plan	373-2.7 (c)(i)(i) 373-2.7(a)(i)(i-iv)		
applicable requirements of 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, and 264.351 will be met.	264.112(a)(2)	373-2.7(c)(1)(ii)		
A description of the maximum inventory of wastes that could be in storage, treatment and disposal at any time during the life of the facility.				

Subject requirement	40 CIR section Has	373 References	Location in application	Conments
1-1d inventory Removal, Disposal or Decontamination The application must describe the procedures which will be used to remove, treat or dispose the waste inventory, decontamination residuals, and contaminated structures, soil and equipment	264 112(a)(3) 264 114 270 14(b)(13) 270 17(q) 264 278 264 258 264 178 264 197	\$73-2.7 (c)(i)(iii) \$73-2.7 (c) \$73-1.5 (a) (2)(xiii) \$73-2.11 (f) \$73-2.12 (h) \$73-2.9(i) \$73-2.9(e)		
1-le <u>Schedule for Closure</u> A schedule for final closure including;	264.112(*)(4)	373-2.7(c)(iv)		
 Estimated expected year of closure Closure schedule with total time to close, time for intervening closure activities, and inspection schedule during closure 				
I-le(1) <u>lime Allowed for Closure</u> lie schedule for closure must show	264.113(a) and (b)	¥373-2.7(d)(1) ¢(2)		
* All hazardous wastes will be treated, removed off-site, or disposed of onsite within 90 days from receipt of final volume of waste * All closure activities will be completed within 180 days from receipt of final volume of waste				
A petition made to the Regional Administrator for a schedule for closure which exceeds the 90 days for treatment, removal, or disposal of wastes and/or the 180 days for completion of closure activities made to the Regional Administrator. One of the following must be demonstrated:	264.113(a) 264.113(b)	373-2.7(d)(1) 313-2.7(d)(2)		
Closure activities require ionger than 180 days (or facility has capacity to receive additional wastes). There is a reasonable likelihood that a person other than owner or operator will recommence operation of the site. Closure would be incompatible with continued operation.				

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Subject rec	utrement.	40 CFR section Nos.	373 References	Location in application	Comments
and thr ron	ntinued) constrate that all steps have by will be taken to prevent ceats to human health and envi- ment frum unclosed but inactive cility.				
<u>tion of Equipa</u> A description	osal, Removal or Decontamina- ent of how all facility equipment will be decontaminated or	264. 114	373 - 2.7(c)		
following show	nen closure is completed. The lift be included:	Guldance			
 tist equipme Disposal of Decontaminatequipment, a 	contaminated soll Ion of clean up materials,			,	
i-1f(1) Closure	of Containers	264.178	373-2.9(i)		
hazardou removed and how and soil with haz waste re or remov	ption of how at closure, all is waste residues will be from the containment system, remaining containers, bases, containing or contaminated ardous waste or hazardous sidues will be decontaminated ed. The description should the following:				
ContaiSite dIncludVerifi	ous waste removal and disposal ner decontamination and disposal econtamination and disposaling linings, soil, and washes cation of decontamination minventory	Guidance			
1-11(2) Closure	of Tanks	264.197	373 - 2.10(e)	·	
hazardou removed equipmen structur decontam	ption of how at closure, all s waste residues will be from tanks, discharge control t, and discharge confinement e, and the facility will be inated. The description should the following:				

Subject requirement	40 CIR section Nos.	373 References	toration in application	Comments
1-1((2) (continued)			1	
 Waste removal from tanks and equipment Decontamination of all components Verification of decontamination Disposal of wastes and residues Haximum inventory 	Guidance	373-2.7(i)		·
[-1(g) Certification of Closure		373-2.7(f)		

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1-4	Closure Cost Estimate A copy of the most recent closure or contingent closure cost estimate, prepared in accordance with 264.142.	270.14(b)(15)	373 -1.5 (a) (2)(xv)	"CLOSURE" SECHON
	• Cost estimate • Fully loaded • No salvage credits • Current year costs • Cost adjusted annually from anniversary date of first cost estimate • Based on point in operating life when extent and manner of operation would make closure most expensive.	264.142 Guidance Guidance 264.142(a) 264.147(b) 264.142(a)	373 - 2.8(c) 373 - 2.8(c)(i) 373 - 2.8(c)(2)	
1.5	A copy of the established financial assurance mechanism for facility closure adopted in	270 14(b)(15) 264 143 264 151	* 373-1.5(a)(e)(kv) 373-2.8(j)	Flumphar Regularments Section

Subject requirement	40 CIR section Hos	373 References	Location in application	Comments
I-5 (continued)				,
compliance with 264.14). The mechanism must be one of the following (1·5(a) through 1-5(f)) and include due dates and use standard wording.				
1-5a Closure trust fund	264.143(a)	373-2.8(4)(1)		
A copy of the closure trust fund agreement with the wording required in 264.151(a)(1) and a formal certification of acknowledgment	264.151(a)(1)	373-2.8(j)(i)		
 Bank or approval institution Mechanics 	•	•		
 Pay-in period; life of permit or remaining life of facility, which- ever is shorter Annual payment; unfunded liability divided by years left in pay-in period 				
I-Sb <u>Surety Bond</u>	·			
A surety bond from a federally acceptable surety company meeting one of the following requirements:	264, 143(b) 264, 151(b)	* 373 - 2.8(d)(2) 373 - 2.8(j)(2)		
 Surety bond guaranteeing payment into a closure trust fund. A copy of the surety bond with the wording required in 264.151(b), a copy of the standby trust fund agreement. Surety bond guaranteeing performance of closure. A copy of the surety bond with the wording required in Part 264.151(c), guaranteeing that the owner or operator will perform closure according to the closure plan and the requirements of Subpart H 	264. 143(b)	* 373~ 2.8G)(2)		
I-5c Closure Letter of Credit	264.143(d) 264.151(d)	973-2.8(d)(s)		
A copy of a closure letter of credit with the wording required in 264.151(d)		373-2.8(j)(3)		
 Irrevocable letter of credit At least one year period, automatic renewal Standby trust fund Amount reflects current cost estimate 			; •	

·**	Subject requirement	40 CFR Section Hos	373 References	foration in application	Cumments
1-5d	Closure Insurance	264 151(e)	373-2.8(j)(5)		
	To demonstrate that the owner or operator has closure insurance, he or she must submit to the Regional Administrator 60 days before hazardous waste is received a certificate of insurance worded as specified in 264 151(e).	·			
	 Moncancellable policy, automatic renewal Insurer licensed or eligible surplus lines carrier Certificate of insurance Funds available whenever final closure occurs 				
1-5e	Financial Test and Corporate Guarantee for Closure	264.143(1) 264.151(1) 264.151(h)	* 373-2.8(d)(5) 373-2.8(j)(5)		
	To demonstrate that this test is met, an owner or operator must submit a letter signed by the company's chief financial officer that is worded as specified in 264.151(f) and meets the following criteria:		373 -2.8(3)(6)		
	 Tangible net worth \$10 million Tangible net worth 6 x all closure and post-closure costs U.S. assets at least 90% of total assets or at least six times all closure and post-closure costs Bond rating requirement or alternative financial ratio tests Application must include; 				
	- Copy of a report on the company's latest financial statements drafted by an independent certified public accountant (CPA) - Copy of a report from the owner's or operator's independent CPA to the owner or operator stating that he or she has examined the data in the letter from the chief financial officer and that it is consistent with the amounts in the independently-audited year-end financial statements for the latest fiscal year and that no matters came to attention to cause him to believe that the data should be adjusted				
·	In lieu of the above items, the owner or operator may submit a curporate quarantee worded as required by 264.151(h). This quarantee provides that the quarantor, which	264.143(1)(10)	*373- 2.8(d)(5)(x)		

Su	rent or requirement	40 CLR section Hos	373 References	tocation in application	Coments
operator, accordanc or operat a closure ator, A	the parent cumpany of the owner or will perform final closure in e with the closure plan if the owner or fails to do so or will establish trust fund for the owner or opercopy of these items should be subth the Part B for review by the iter.				
1-5f Comb	Inations				
1-5f(1)	Use of Multiple financial Mechanisms	264. 143(g)	373-2.8(4)(6)		
	A copy of a combination of trust fund agreements, surety bond guaranteeing payment into a closure trust fund or letters of credit, insurance, and state assumption of responsibility, which provide financial assurance for the amount of closure. Combined financial assurance must be at least equal to the adjusted closure cost estimate. Financial assurance instruments must meet requirements of 264.143(a),(b),(d), or (e) which include closure trust fund, surety bond guaranteeing payment into a closure trust fund, closure letter of credit, and closure insurance, respectively.	264.149			
1-51(2)	Use of Financial Mechanism for Multiple Facilities	264. 143(h)	373-2.8(1)(7)		
	A copy of a financial assurance mechanism for more than one facility showing for each facility, the EPA 10 number, name, address, and amount of closure funds assured by the mechanism. Total funding must be no less than the sum required for each facility considered separately. Documents must be submitted to each Region where facilities are located. Financial test applies to sum of closure and post-closure costs for all facilities.				
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Subject requirement	40 LFR section Nos	373 References	location in application	Comments
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1-7f Combinations 1-7f(1) Use of Multiple Financial Mechanisms	264. 145(q)			
A copy of a cumbination of trust fund agreements, surely bond guaranteeing payment into a post-closure trust fund or letters of credit, insurance, and state assumption of responsibility, which provide financial assurance for the amount of post-closure. Combined financial assurance must be at least equal to the adjusted post-closure cost estimate. Financial assurance instruments must meet requirements of 264.143(a),(b),(d), or (e) which include post-closure trust fund, surely bond guaranteeing payment into a post-closure trust fund, postclosure letter	204. 143(g)	375 - 2.8(f)(b)		
of credit, and post-closure insurance, respectively 1-7f(2) Use of Financial Mechanism for Multiple Facilities	264. 145(h)	375-2.8(1)(1)		
A copy of a financial assurance mechanism for more than one facility showing for each facility, the EPA ID number, name, address, and amount of closure funds assured by the mechanism. Jotal funding must be no less than the sum				•

Subject requirement	40 CIR section Hos.	313 References	tocation in application	Coments
1-71(2) continued)				
required for each facility considered separately. Documents must be submitted to each Region where facilities are located. Financial test applies to the sum of closure and post-closure costs for all facilities.				
1-8 Liability Requirements	270 14(b)(1/) 264 147(a)	373-1.5 (a)(2)(xxiii)		
Where applicable, a copy of the insurance policy or other documentation which cumprise compliance with the requirements of 264.147. (Coverage is for all facilities owned and operated and applies until certification for closure and post-closure is completed. For facilities in Phase I authorized states, originally signed duplicates of executed instruments or certificates of insurance are not required until the time of permit issuance, except as required by state law.)	264. 147(b)	373 - 2.8(h)(i) 14375 - 2.8(l)(2)		
1-8a Sudden Insurance	264 147 (a through d)	1 373-2.B(n)		
Hazardous waste treatment, storage, or disposal facilities must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences.	264 151 (g,i,j) 264 147(a)	373-2.8 (1) and (2) 373-2.8 (4)(1)		
 Amount of at least \$1 million per occur- 			'	
rence An annual total of at least \$2 million, exclusive of legal costs A signed duplicate original of the Hazardous Waste Facility Liability Endursement worded as specified in 264.151(i), or				
 A Certificate of Liability Insurance worded as specified in 264.151(j) Financial test 				
 Letter form CFO Auditor report Auditor opinion Other information requested by R.A. Acceptable ratios 				
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Subject requirement	40 CER section Nos	375 References	tocation in application	Comments
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Evaluation of degree and duration of risk sufficient to allow RA to make a judgement on reduction of required liability. The financial responsibility levels specified above for liability insurance for sudden accidental occurrences may be adjusted downward if the owner or operator can prove to the Regional Administrator that these levels are not consistent with the degree and duration of risk at the owner's or operator's facility. Conversely, the Regional Administrator may adjust the levels of financial responsibility up or down, based on the Administrator's assessment of the degree and duration of risk associated with the facility.	264.147(c) and (d)	373-2.8(h) (3) È(4)		
PART J - OTHER FEDERAL LAWS Demonstration of compliance if applicable with the requirements of applicable other federal laws such as the Wild and Scenic Rivers Act, National Historic Preservation Act of 1966, Endangered Species Act, Coastal Zone Management Act, Fish and Wildlife Coordination Act.	270. 14(b)(20) 270. 3			
PART K - CERTIFICATION Certification of application by a principal executive of the company of at least the level of vice president. Certification by a general partner or proprietor for a partnership or sole proprietorship, respectively. Certification by a principal executive officer or ranking elected official for a municipality, state, federal, or other public agency.	270.11	373-1.4(a)		