

RCRA SUBPART BB CHECKLIST AIR EMISSIONS STANDARDS FOR EQUIPMENT LEAKS

Section A-Exclusions and Exemptions A YES answer to any question in this section means that the equipment is not subjected to subpart BB requirements. (Note: General exemptions found in 265.1 apply) 1. Is equipment in vacuum service and identified as such in the operating record? N/A YES NO [1050(d)]2. Does equipment contain or contact HW with an organic concentration $\geq 10\%$ by weight for less than 300 hours per calendar year and is identified as such in the operating record?[1050(e)] N/A YES NO **Section B - - Applicability** A Yes answer indicates that the facility has equipment subjected to subpart BB. 1. Does the equipment come in contact or contain HW with an organic concentration $\geq 10\%$ by weight and is managed in one of the following:[1050(b)] (A). A unit that is subjected to one of the permitting standards? N/A YES NO (B). A unit that is not exempt from permitting under 40 CFR 262.34(a) (including recycling units) and is located at a facility otherwise subjected to permitting requirements? N/A YES NO (C). A unit that is exempt from permitting under 40 CFR 262.34(a) and is not a recycling unit under 40 CFR 261.6? N/A YES NO Section C- Standards, Pumps in Light Liquid Service N/A Light liquid service: For a hazardous waste to be in light liquid service, the vapor pressure of one or more of the organic constituents in the material must greater than 0.3 Kilopascals at 20 C° and the total concentration of pure organic constituents having a vapor pressure greater than 0.3 Kilopascals at 20 C° is equal to or greater than 20 percent by weight. 1. Is the pump equipped with a closed vent system routed to a control device(meeting the standards of 1060)?[1052(f)] YES NO If Yes, the rest of this section is not applicable. N/A If No, complete the rest of this section. 2. Are the pumps designated for no detectable emissions?[1052(e)] YES NO If Yes, skip to question 4. If No, answer question 3.

3. Is the pump equipped with a dual mechanical seal system

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that includes a barrier fluid system?[1052(d)]			YES_	_NO
If Yes, then(check which applies)(A) Is the mechanical seal system operated with the barrier fluid at a pressure always greater than the pump stuffing box preson	ssure,	YES		
Equipped with a barrier fluid degassing reservoir that is connective by a closed vent system to a control device meeting §265.10	cted 060 requiremer	nts,	YES_	_
Equipped with a system that purges the barrier fluid into a haze with no detectable emissions to the atmosphere.	ardous waste st	ream	YES	
(B) Is the barrier fluid hazardous waste with organic concentration	≥10% by weig	ht?	YES	NO
(C) Is each barrier fluid system equipped with a sensor that will define seal system, the fluid system or both?[1052(d)3]	tect failure of the	he	YES_	_NO
If Yes, Is each sensor checked daily or equipped with an audible al	arm?[1052(d)5]	N/A	_YES
If equipped with an audible alarm is it checked monthly?[1052(d)5]	_NO	N/A	_YES
(D) Is each pump visually checked each calendar week for leaks?[1	l052(d)4]		NO	YES
(E) Has the O/O established the criterion that indicates the failure of system, barrier system or both?[1052(d)5(ii)]	of the seal	NO	 N/A	_YES
If Yes, is the criteria based on design and operating experience	?[1052(d)5(ii)]	_NO]N/A	_YES_	_NO
(F) If a leak is detected is the first attempt to repair within 5 calend	ar days of dete	ction? _NO	N/A	_YES
(G) Was the repair made within 15 days of discovery unless technic without a hazardous waste management unit shutdown?	cally infeasible [1052(d)6(ii)]	NO	N/A	YES
(H) If the repair was delayed was it completed by the end of the ne management unit shutdown?[1059a]	xt	 N/A	_YES_	_NO
(I) If the repair required the use of a dual mechanical seal system the barrier fluid system was the repair completed no later than from detection?[1059(d)]	nat includes a 6 months	N/A	_YES_	_NO
For pumps designated as no detectable emissions was the pump mo instrument to be <500 ppm above background?	onitored by	NO	N/A	_YES
(A) Does the pump have an externally actuated shaft penetrating th	e pump housin	 g?	N/A	_NO

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	(B) Was method 21 used in determining no detectable emissions?[10(C) Is the pump(s) monitored annually after the initial designation?[052(e)2] [1052(e)3]	_YES _NO _NO	N/A N/A	_YES _YES	
Sectio	on D Standards, Compressors	N/A	_			
1.	Is the compressor equipped with a closed vent system routed to a co If Yes, rest of this section in not applicable. If No, complete the rest of this section.	ntrol device?	[1053h]	N/A	_YES	_NO
2.	Has the compressor been designated for no detectable emissions?[10 If yes, complete rest of question 2 and skip the rest of this section. If No, go to question 3.	053(i)]	YES_	_NO		
	 (A) For compressors designated as no detectable emissions was it ministrument to be <500 ppm above background?[1053(i)] (B) Was method 21 used in determining no detectable emissions?[10] (C) Is the compressor monitored annually after the initial designation 	nonitored by 053(i)1] n?[1053(i)2]	_NO _NO NO	N/A N/A	_YES _YES _YES	
3.	Is each compressor equipped with a seal system including a barrier that prevents leakage of emissions to the atmosphere?[1053(a)]	fluid system			N/A	۸ <u>ــــــــــــــــــــــــــــــــــــ</u>
4.	Is each seal system equipped with at least one of the following: Operated with the barrier fluid at a pressure > the compressor stuffing box pressure;[1053(b)1] OR Equipped with a barrier fluid system that is connected by a c system routed to a control device(meeting the standards of 14 OR	or YES_ closed vent 060); YES_	NO NO			
	waste stream with no detectable emissions;[1053(b)3] If No to all three explain in comments.	azardous	YES_	_NO		
5.	Is the barrier fluid a hazardous waste with an organic concentration	≥10%?[1053	(c)] _YES	N/A	_NO	
6.	Is each barrier fluid system equipped with a sensor that will detect a the seal system, barrier fluid system or both?[1053(d)]	failure of	_NO	N/A	_YES	

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	(A) Is each sensor checked daily or equipped we checked monthly;ORIs the compressor located within the bout site in which the sensor is checked daily	ith a audible alarm that is undary of an unmanned play. [1053(e)1]	N/A_ ant	_YES_ N/A	_NO _YES_	_NO
7.	Has the O/O established the criterion that indicates system, the barrier fluid system or both?	ates the failure of the seal ting experience $2[1053(e)]$	21	N/A	_YES	_NO
8.	If a leak is detected is the first attempt to repair	within 5 calendar days of	detecti	on? N/A	YE\$	NO 5NO
9.	Was the repair made within 15 days of discover without a hazardous waste management unit sh	y unless technically infea- utdown?	sible		[10)53(g)1]
10.	If the repair was delayed was it completed by th management unit shutdown?[1059a]	e end of the next		N/A	YES	SNO
Secti	on E Standards: Pressure relief devices in ga	as/vapor service	N/A			
1.	Is the pressure relief device equipped with a clo	osed vent routed to a contr	ol devid	ce?	YES	_NO
	If Yes, the rest of this section is not applicable. If No, complete the rest of this section.	[1054(c)]		N/A		
2.	Are pressure relief devices operated with no det during pressure releases?[1054(a)]	tectable emissions except		N/A	_YES_	_NO
	If Yes, was method 21 used(indicating <500 pp	m above background)?		_NO	N/A	_YES
3.	After a pressure relief event was the device retu status as indicated by instrument reading within infeasible without a hazardous waste manageme	rned to no detectable emis 5 calendar days unless te ent unit shutdown?[1054(]	ssion chnical o)1]	ly _NO	N/A	_YES
Secti	on F Standards: Sampling connection systen	ns.	N/A_			
1.	Is the sampling system <i>in-situ</i> or without purges	s?[1055(c)]		N/A	_YES_	_NO
	If Yes, then the rest of this section is not applica If No, complete the rest of this section.	able.				
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2. Is each sampling connection system equipped with a closed-purge,

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	closed-loop, or closed-vent system?[1055(a)]	_NO	N/A_YES
3.	Does the system identified in question 1 return the sample purge to the proc or route to an appropriate treatment system?[1055(a)]	cess _NO	N/A_YES
4.	Does each closed-purge, closed-loop or closed vent system: Return the purge process fluid directly to the process line; OR	YES	NO
	Collect and recycle the purged process fluid;	YES	NO
	Be designed and operated to capture and transport all the purged process fluid to a waste management unit that complies with subpart CC?	YES	NO
	If No to all three explain in comments.		
Sectio	n G Standards: Open-ended valves or lines	N/A	
1.	Each open-ended valve or line equipped with a cap, blind flange, plug or a second valve?[1056(a)]	N/A	YESNO
2.	Does each cap, blind flange, plug or a second valve seal the open end at all times except when operations require hazardous waste flow?[1056(a)2]	_NO	N/A_YES
3.	For those equipped with a second valve is the valve on the hazardous waste stream end always closed first before the second valve is closed?[1056(b)]	eN/A	YESNO
4.	If a double block and bleed system is used is the line sealed with a cap, blind flange, plug or a second valve at all times except when operations require venting the line between the block valves?[1056(c)]	N/A	YESNO
Sectio	n HStandards Valves in gas/vapor service or light liquid service	N/A	
1.	Has O/O elected to comply with the alternate standard which allows no greater than 2% of the valves to leak?		YESNO
2.	If Yes, this section is N/A. Go to Section H. If No, continue. Is each valve monitored monthly or quarterly by method 21 to detect leaks designated no detectable emissions, unsafe to monitor, difficult to monitor of	N/A unless or	
	alternate standard?[1057(a)]	N/A	YESNO

If No, Answer Section J.

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If designated no detectable emissions go to question #7 If designated as unsafe to monitor go to question #8. If designated as difficult to monitor go to question #9.

- If monitored quarterly(first month of each quarter) was leak detection negative (<10,000 ppm) for the 2 proceeding months prior to going to quarterly monitoring?[1057(c)1] N/A YES _NO
 - If a leak was detected(>10,000 ppm) during quarterly monitoring was monitoring returned to a monthly frequency until 2 successive months of no detection was achieved?[1057(c)2] N/A YES NO
 - If a leak is detected is the first attempt to repair within 5 calendar days of detection?[1057(d)2] N/A YES NO
 - Was the repair made within 15 days of discovery unless technically infeasible without a hazardous waste management unit shutdown? [1057(d)1]N/A YES _NO
 - If delayed was the repair completed by the end of the next management unit shutdown?[1059a]
 - For valves designated as no detectable emissions was it monitored by instrument to be <500 ppm above background?[1057(f)] N/A YES NO
 - (A) Was method 21 used in determining no detectable emissions?[1057(f)2] N/A YES _NO
 - _NO (C) Is the valve absent of an external actuating mechanism in contact with the hazardous waste?[1057(f)1] N/A YES NO
 - If any valves have been determined to be unsafe to monitor has a written plan been developed for monitoring during safe to monitor times?[1057(g)2] N/A YES NO
 - If any valves have been designated as difficult to monitor has the O/O met the following:[1057(h)] (A) Determined that the valve cannot be monitored without elevation of personnel more than 2 meters above a support surface? N/A YES NO
 - (B) The unit within which the valve is located was in operation before June 21, 1990? N/A YES

N/A YES NO

N/A YES

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	(C) Developed a written plan that requires monitoring of the valve a	t least	_NO		
	once per calendar year?		N/A	_YES	NO
Sectio	n I Alternate Standards for Valves in Gas/Vapor Service or in	Light Liquid	l Servic	e	
1.	Are no greater than 2% of the valves in A hazardous waste manager unit(HWMU) allowed to leak?[1061(a)]	nent	N/A	YES_	NO
2.	Has the O/O notified the Regional Administrator that they have electromy with the alternate standard?[1061(b)1]	eted to	N/A	YES_	NO
3.	Has the O/O completed a performance test?[1061(b)2]		N/A	YES_	NO
4.	If a performance test was completed, were all valves subjected to re- monitored by method 21 within one week?[1061(c)1]	gulation	N/A	YES_	NO
5.	Were any readings \geq 10,000 ppm, indicating a leak, noted?	YES_	_NO		
6.	Was the percentage of leaking valves determined by dividing the nu of valves subject to the requirements that are leaking by the total nu of valves subject to the requirements in the HWMU? [1061(c)3]	mber mber	N/A	YES_	NO
(Note:	If the O/O decides to no longer comply with the alternate standards t	the O/O must	re-notif	y)	
Sectio Servic	n J Skip period Leak Detection and Repair for Valves in Gas/V e.	apor Service	e or in L	ight liqu	ıid
If the a	answer to question 2 in Section G is yes then this section is not applic	able.		N/A	
1.	Has the O/O elected to comply with one of the following alternative (A). Skip one of the quarterly leak detection periods?[1062(b)2] (i.e., monitor for leaks once every six months)	work practic YES_	es: _NO		
	If Yes, skip question 3. OR				
	(B). Skip three of the quarterly leak detection periods?[1062(b)3](i.e., monitor for leaks once every year)If Yes, skip question 2.	YES_	_NO		
2.	Were 2 consecutive quarterly leak detection periods with $\leq 2\%$ of valeaking conducted?	lves	N/A	YES_	NO
3.	Were 5 consecutive quarterly leak detection periods with $\leq 2\%$ of valeaking conducted?	lves	N/A	YES_	NO
4.	During any leak detection period did the number of leaking valves e	exceed 2%?		YES	NO
	If Yes, did the O/O return to monthly monitoring?[1062(b)4]		N/A	YES_	NO

5.	Did the O/O notify the Regional Administrator before implementing the alternate work practice?[1062(a)2]	N/A_YES_NO
Sectio	on KStandards: Pumps and valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, Flanges and other connectors .	N/A
1.	Are any connectors inaccessible, ceramic or ceramic-lined, porcelain, glass or glas NO If Yes, the rest of this section is not applicable.[1058(e)] If No, continue.	ss-lined? YES
2.	If evidence of a leak is found by visual, audible, olfactory, or any other detection method was the equipment, as described in the title of this section, monitored within 5 days by method 21?[1058(a)]	N/AYES _NO
3.	If a leak is detected by a reading of $\geq 10,000$ ppm by the instrument was the repair made within 15 calendar days of detection unless technically infeasible without a hazardous waste management unit shutdown?[1058(c)1]	N/AYESNO
4.	Was the first attempt at repair made within 5 calendar days of leak detection?[105	8(c)2] N/A_YES _NO
Sectio	on LStandards: Delay of Repair	N/A
1.	If a repair for which a leak was detected was delayed because it was technically infeasible without a hazardous waste management unit shutdown, was the repair completed before the end of the next unit shutdown?[1059(a)]	N/AYES _NO
2.	For a detected leak from a valve was the repair delayed?[1059(c)] N/A	YESNO
_NO	If Yes,(A) Did the O/O determine that emissions of purged material result in from immed repair are greater than the emissions likely to result from delay of repairs?[10]	diate 59(c)1]N/A_YES
	(B) When the delayed repair was initiated was purged material collected and destroyed or recovered in a control device meeting §265.1060 standards? [105]	59(c)2] N/A_YES
	(C) Was the repair delayed beyond the hazardous waste management unit shut dow	wn? N/A_YES
	If Yes, (1) Was the next unit shutdown scheduled sooner than 6 months	

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	after the first shutdown?[1059(e)]		NO	YES
	(2) Was valve assembly replacement necessary in order to effect the repai	r?	_NO	YES
	If Yes.		_NO	
	Were valve assembly supplies depleted during the shutdown?		NO	_YES
	If Yes, Were valve assembly supplies sufficiently stocked prior to the deplet	ion?	_NO	YES
3.	For a detected leak from a pump was the repair delayed?[1059(d)] N/A	_YES_	NO	
	 (A) Did the repair require the use of a dual mechanical seal system that includes a barrier fluid system?[1059(d)1] 	_NO	N/A	_YES
	(B) Was repair completed as soon as practicable, but not later than 6 months after the leak was detected?[1059(d)2]	N/A_	_YES_	NO
Sectio	on M CLOSED VENT SYSTEMS and Control Devices If closed vent systems are not being used then this section is not applicable.		N/A_	
1.	Does the closed vent system route gases, vapors and/or fumes to a control device?[1088(b)1]	N/A	YE	SNO
2.	If the system is equipped with bypasses that may route vapors to the atmosphere, is the bypass equipped with either a flow indicator, seal or locking device? (excluded from this question are low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, spring loaded pressure relief valves and other safety fittings)[1088(b)3]	N/A	YF	S NO
	(a). If a flow indicator is used, is it installed at the inlet of the bypass at a point upstream of the control device inlet?	N/A	YE	SNO
	(b). If a seal or locking device is used is it placed on the mechanism by which the bypass position is controlled?	N/A	YE	SNO
	(c). If a seal or locking device is used, is it inspected at least once a month to verify the mechanism is maintained in the closed position.	N/A	YE	SNO
3.	Is the closed vent system designed to operate with no detectable emissions as determined by Method 21? (<500ppmv above background) [1033(j)1]		YES_	NO
С	DR Is the system designed to operate below atmospheric pressure?		YES	NO
	,		~_	

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If oper If oper	rated with no detectable emissions indicate questions 9-11as N/A and contrated below atmospheric pressure indicate questions 4-8 as N/A and go to	tinue. question #9			
4.	Was an initial leak detection of the closed vent system and connections conducted on or before the system was first subjected to regulation using Method 21? [1060(a)]ref[1033k]		N/A	_YES	_NO
5.	Are joints, seams or other connections that are permanently or semi-perm sealed visually inspected annually(after initial monitoring) for defects the result in emissions?[1033(k)1(ii)A]	nanently at could	N/A	_YES	_NO
6.	Are other components/connections of the closed vent system not listed in monitored annually by Method 21, unless designated as unsafe to monit	n #5 or?	N/A	_YES	_NO
7.	If repairs were conducted on the system, components replaced or connect unsealed, was the system reinspected under Method 21 to demonstrate the system operates with no detectable emissions?[1033k(1)ii(A)]	ctions nat the			
8.	If any components are designated as unsafe to monitor, are the componer identified and an explanation as to why it is unsafe to monitor and a plan monitoring the component as frequently as practicable during safe-to-motion times 2[1022(n)]	nts n for onitor	NT / A	VES	NO
	times [[1055(fi)]]		N/A	_1ES YES	_NO
9.	If the system is designed to operate below atmospheric pressure is it equ with a pressure measurement device that is readily accessible?[1033(j)]	ipped	N/A	_YES	_NO
10.	If operating below atmospheric pressure is negative pressure maintained system while the control device is in operation?[1033(j)2]	in the	N/A	_YES	_NO
11.	If operating below atmospheric pressure was the closed vent system visu inspected by the O/O, initially and annually thereafter, to check for defe that could result in emissions?[1033(k)2(i)]	ally ects	N/A	_YES	_NO
12.	Were first attempts to repair defects found during inspections or monitor made within 5 calendar days of detection and completed within 15 calen days after detection unless a process unit shut down is warranted or emiss caused by immediate repair would be greater than fugitive emissions rela- from the defect?[1033(k)3]	ing dar ssions eased	N/A	_YES	NO
13.	If a delay in repairing a defect is warranted, was the repair conducted at next process unit shut down after the defect was detected?[1033(k)3(iii)]	the	N/A	_YES	_NO
14.	Does the O/O maintain inspection and monitoring records?[1033(k)1(iv))&2(iv)]	N/A	_YES	NO

Section N- - Control Devices, Equipment Standards

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If con	trol devices are not used this section is not applicable.	N/A		
Check	which one of the following control devices are being utilized:			
1.	Enclosed Combustion Device[1060(a)]ref[1033(c)] (ie. vapor incinerator, boiler or process heater) (a). Is 95% by weight reduction in organic emission achieved by either:[1033(c)]	YES	_NO	
	 Total organic compound concentration of 20 ppmv, expressed as the sum of the actual compounds, not carbon equivalents, on a dry basis corrected to 3 % oxygen, OR 	YES	_NO	
	2. Providing a minimum residence time of 0.50 seconds at a minimum temperature of 760 °C.	YES	_NO	
	(b). If a boiler or process heater is used as the control device, is the vent stream introduced into the flame combustion zone?	N/A_	YES	_NO
2.	Flare [1060(a)]ref[1033(d)] [A flare use to comply with this section shall be steam-assisted, air-assisted	YES d or non	_NO a-assisted]	
	(a). Is the flare designed and operated with no visible emissions as determined by in 40 CFR part 60, except for period not to exceed a total of 5 minutes durin consequtive 2 hour period 2 [1022(d)]	/ Methoo g any	1 22 VES	NO
	(b). Is the flare operated with a flame present at all times as determined by a heat	-	YES_	_NO
	(c). Does the recorder indicate the continuous ignition of the pilot flame?	.)]	YES_ YES_	_NO _NO
	(d). Is the equipment referenced in question (b) installed, calibrated, maintained and operated according to the manufacturer's specifications? [1033(f)2]	N/A_	YES	_NO
	(e). Is the flare steam or air assisted?If Yes, then1. Is the net heating value, of the vent stream, routed to the flare	YES	<u>_NO</u>	
	≥11.2 MJ/scm (300 Btu/scf)? (f). Is the flare nonassisted? If Yes, then	N/A_ YES	YES _NO	_NO
	 Is the net heating value, of the vent stream, routed to the flare ≥7.45 MJ/scm (200Btu/scf)? (g) Is the net heating value of the vent stream determined by the equation 	N/A_	YES	_NO
	(b) Is the net netaling value of the vent stream determined by the equation contained in 40 CFR 265.1033(e)(2)?(b). Is the steam assisted and/or nonassisted flares, referenced in (e) and (f)		YES	_NO
	above, designed and operated with an exit velocity of less than 18.3 m/s (60 ft/s)? If Yes, then	N/A_	YES	_NO
	 1. Is the exit velocity determined by Method 2, 2A,2C, or 2D found in 40 CFR part 60? 	N/A_	YES	_NO
	 (1). Does the facility have steam assisted or nonassisted flares being operated with exit velocity ≥18.3 m/s but < 122 m/s? If Yes, then 	YES	_NO	

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1. Is the heating value of the vent stream > 37.3 MJ/scm (1000 Btu/	/scf)? N/	'A	_YES	_NO
(j). If the measured exit velocity (Method 2, 2A, 2C, or 2D) is $< V_{max}$				
(calculated by method in $[1033(e)4]$) and < 122 m/s: $[1033(d)4(11)]$	D49 NL	/ A	VEC	NO
1. For steam assisted flares is the heat value of the vent stream ≥ 300	J B t u / N / N / N / N / N / N / N / N / N /	A	<u>1 E5</u>	_NO
2. For nonassisted flares is the heat value of the vent stream ≥ 200 B	tu? N/	A	YES	_NO
(k). Is the air assisted hare design and operated so that the measured exit velocity is $< V_{max}$? (V_{max} is calculated by method listed in [1033(e)5	5] N/	'A	YES_	_NO
For a thermal vapor incinerator: [1060(a)]ref[1033(f)2(i)]				
(a). Is a temperature monitoring device equipped with a continuous recorded	er			
installed in the combustion chamber downstream of the combustion zon	ne? N/	A	YES	NO
b). Is the accuracy of the temperature monitoring device $\pm 1\%$ °C				
or ± 0.5 °C (which ever is greater)?	N/	Ά_	YES	NO
c). Is the equipment referenced in question (a) installed, calibrated, mainta	ained		· <u> </u>	-
and operated according to the manufacturer's specifications?[1033(f)2]	N/	'A	_YES	_NO
For a catalytic vapor incinerator:[1060(a)]ref[1033(f)2(ii)]				
a). Is a temperature monitoring device equipped with a continuous records	er	(A	VES	NO
capable of monitoring temperature at two locations installed?	IN/	A	<u>1E5</u>	_NO
b). Is one temperature sensor instaned in the vent stream at the hearest feasible point to the catalyst bed inlet?	N	Δ	VES	NO
c) Is the other temperature sensor installed in the vent stream at the	1 •/	<u>л</u>	_1L3_	_110
nearest feasible point to the catalyst bed outlet?	N	'A	YES	NO
d) Is the accuracy of the temperature monitoring device $\pm 1\%$ °C	14/	· ·	_125_	
or $+ 0.5$ °C (which ever is greater)?	N	'A	YES	NO
e). Is the equipment referenced in question (a-c) installed, calibrated, main	ntained	· ·	_120_	
and operated according to the manufacturer's specifications?[1033(f)2(ii)] N/	'A	YES	_NO
For a boiler or process heater having a design heat input capacity <44 MW:				
a). Is a temperature monitoring device equipped with a continuous recorde	er		VEG	NO
installed at a location in the furnace downstream of the combustion zor	ne? N/	A	YES_	_NO
b). Is the accuracy of the temperature monitoring device $\pm 1\%$ °C	X .T	/ A	VEC	NO
or \pm 0.5 °C (which ever is greater)?	N/	A	YES_	_NO
and operated according to the manufacturer's specifications?[1033(f)2(ined iv)] N/	A	YES_	_NO
For a boiler or process heater having a design heat input capacity \ge 44MW:				
a). Is the control device equipped with a monitoring device, equipped with	ı			
a continuous recorder, to measure a parameter(s) that indicates good				
combustion operating practices are being used?	N/	A	YES	NO
b). Is the equipment referenced in question (a) installed, calibrated, mainta	ained			
and operated according to the manufacturer's specifications?[1033(f)2(v)] N/	A	_YES	_NO
s the vapor recovery (e.g. condenser or adsorber) equipped with either:				

(a). A monitoring device equipped with a continuous recorder to measure the concentration level of the organic compounds in the exhaust vent

3.

4.

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5.

6.

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stream from the condenser,	[1033(f)2(vi)A]	N/A	_YES	_NO
OR				
(b). A temperature monitoring dev	vice with the following:[1033(f)2(vi)B]			
1. Equipped with a continu	lous recorder,			
2. Accuracy of \pm 1% °C or	$r \pm 0.5$ °C (which ever is greater),			
3. Installed at a location in	the exhaust vent stream from the			
condenser exit.	N/	'A YES	NO	
[If (a) and (b) are both no explain :	in comments]			
(c). Is the equipment referenced in and operated according to the	n question (a&b) installed, calibrated, main manufacturer's specifications?[1033(f)1]	tained N/A	YES	NO
(d). Is the unit designed and operation	ted to recover vapors vented to it with an ef	fficiency		
of \geq 95% by weight unless the	total organic emission limits of §265.1032	(a)(1) for		
all affected process vents can	be attained at an efficiency < 95% by weight	ht?		
Carbon Adsorber-Regenerative[10	988(c)3(i)]ref[1033(g)]	YES_	_NO	
If Yes,				
(A). Is the carbon replaced at a reg	gular, predetermined time interval that is no	longer		
than the carbon service life es	tablished as a requirement of 1035(b)4(iii)	F?	YES	NO
(B). Is carbon removed from the co	ontrol device, that is HW, managed in one of	or more		
of the following procedures:[1	.033(m)]			
1. Regenerated or reactiva	ted in a thermal treatment unit that is			
either permitted or equi	pped with air emission controls in	VEO	NO	
accordance with subpar	ts AA or CC or 40 CFR part 61 or 63,	YES_	_NO	
2. Incinerated in a hazardo	bus waste incinerator that is either	VEC	NO	
2 Durned in a bailer on in	l status,	Y ES_	_NO	
5. Burned III a boller of III	dustrial furnace which is either permitted	VEC	NO	
(C) Is the system equipped with ϵ	hither: [1033(f) 2(vii)]	1 ES_	_NO	
(C). Is the system equipped with e_{1}	uinped with a continuous recorder to measu	uro		
the concentration level	of the organic compounds in the exhaust ve	ant		
stream from the carbon	hed	VES	NO	
OR	Jou,	120_		
2. A monitoring device eq	uipped with a continuous recorder			
to measure a parameter	that indicates the carbon bed is			
regenerated on a regular	r, predetermined time cycle.	YES	NO	
(D). Is the equipment referenced i	n question (C) installed, calibrated, maintai	ined		
and operated according to the	manufacturer's specifications?[1033(f)2(vi	i)] N/A	YES	NO
(E). Are records maintained for th	e management of the carbon removed	/ -		
from the system? [1090(e)1(v	ii)]	N/A	YES	NO
(F). Was a design analysis complete	eted to demonstrate performance?		YES	NO
If yes, did the analysis:				
1. Consider vent stream co	omposition, constituent concentration,			
flow rate, relative humi	dity, and temperature?	N/A	YES	NO
2. Establish the design exh	naust vent stream organic compound			
concentration level?		N/A	YES	NO
3. Establish the number an	d capacity of carbon beds?	N/A	YES	NO

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	 Establish the type and working cap Establish the design total steam flo 	acity of the activated carbon used? w over the period of each	N/A	_YES	_NO	
NO	complete carbon bed regeneration 6. Establish the duration of the carbon	cycle? n bed steaming and cooling/drying c	N/A ycles?N/A	_YES \YES	_NO	
NO	 7. Establish the design carbon bed ter 8. Establish the design regeneration ti 	nperature after regeneration?	N/A N/A	_YES YES	_NO NO	
	9. Establish the carbon service life?		N/A	YES_	NO	
9.	Carbon Adsorber-Non-Regenerative If Yes,		YESN	NO		
	(a). Is the control device designed and operat weight total organic content?[1088(c)1(i)(b). Is the performance standard in question (ed to remove at least 95% by [] (1.a) based on the total quantity of		YES	_NO	
	organics vented to the atmosphere from a equipment that is used for organic adsorp carbon regeneration, organic recovery, ar (c) Is the carbon replaced by:	Il carbon adsorption system tion, organic desorption or nd carbon disposal?[1088(c)5(v)]		YES	_NO	
	 Monitoring the concentration level exhaust vent on a regular schedule when breakthrough is indicated, 	of the organic compounds in the and replacing the carbon immediate	ly Y	ES_N	ĨO	
	OR 2. Replace with fresh carbon at a regu interval that is less than the design (If #1 & #2 are both no explain in con	ular, predetermined time carbon replacement interval. nments)	YES1	NO		
	(d). If the exhaust vent is being monitored for monitoring frequency either daily or no g time required to consume the total carbor	r breakthrough, is the reater than 20 % of the				
	[1033(h)1]	i working capacity:	N/A	_YES	_NO	
	(f). Was a design analysis completed to demo If yes, did the analysis:[1035(b)4(iii)G]	onstrate performance?	YESN	٥٧		
	 Consider vent stream composition, flow rate, relative humidity, and ter Establish the design outlet organic Establish the capacity of carbon be Establish the type and working cap Establish the design carbon replace carbon working capacity and source 	constituent concentration, mperature? concentration level? ds? eacity of the activated carbon used? ement interval based on the total e operating schedule?	N/A N/A N/A N/A	_YES _YES _YES _YES _YES	_NO _NO _NO _NO _NO	
	 (g). Is the system equipped with either:[1060 1. A monitoring device equipped with to measure the concentration level in the exhaust vent stream from the OR 2. A monitoring device equipped with 	(a)]ref[1033(f)2(vii)] n a continuous recorder of the organic compounds e carbon bed, n a continuous recorder	YES1	NO		

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	to measure a parameter that indicates the carbon bed is regenerated on a regular, predetermined time cycle.	YES	_NO	
	(h). Is the equipment referenced in question (g) installed, calibrated and operated according to the manufacturer's specifications? [1060(a)]ref[1033(f)2]	, maintained N/A_	YES	_NO
10.	 (c). Is a description and location diagram of the monitoring device a kept up to date in the operating record?[1090(e)1(iv)] (d). Have operating parameters been identified and documented?[10] 	recorded and N/A_ 090(e)1(iv)] N/A_	YES YES	_NO _NO
11.	 (d). Is a description and location diagram of the monitoring device a kept up to date in the operating record?[1090(e)1(iv)] (e). Have operating parameters been identified and documented?[10(f). If a design analysis was completed to demonstrate performance the vent stream composition, constituent concentrations, flow ra humidity, and temperature?[1035(b)4(iii)E] (g). Did the design analysis establish the design outlet organic comp concentration level, design average temperature of the exhaust v stream, and design average temperatures of the coolant fluid at a condenser inlet and outlet?[1035(b)4(iii)E] 	recorded and N/A P(e)1(iv) = N/A did it include ate, relative N/A pound vent the N/A	YES _YES _YES	_NO _NO _NO
12.	 Other (Control device other than a thermal vapor incinerator, flare, boiler, condenser, or carbon adsorption system) (a). Does the facility maintain documentation that describes the condevice operation and identifies the process parameter(s) that incorpore operation and maintenance?[1088(c)4]ref[1033(i)] (b). If the control device is other than an enclosed combustion deviration deviration and identifies the total organic contat least 95% by weight?[1088(c)1] 	YES process heater, atrol licate ace or a ent by	NO _NO _YES YES	_NO _NO
Section	n O Control Devices, General Standards			
1.	Did periods of planned routine maintenance of the control device whether the control device not to meet the standards exceed 240 hours per years	hich caused ear?[1088(c)2(i)]N/A_	NO	YE <u>S</u>
2.	Are gases, vapors and/or fumes vented to the control device during p of planned maintenance or during periods of control device system r except when it is necessary to prevent unsafe conditions?[1088(c)2(periods malfunction vi)] N/A_	NO	YES
3.	Are control device system malfunctions corrected as soon as practic after their occurrence?[1088(c)2(v)]	able N/A	YES	_NO

4. Is the closed vent system not actively vented to the control device during

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	periods of planned maintenance or system malfunction except to avoid an unsafe condition or implementation of corrective action? [1088(c)2vi]	N/AYI	ESNO
5.	 Except for the following control devices did the O/O demonstrate, using either a performance test or a design analysis, the performance of each control device?[1088(c)5(i)] A. Flare B. Boiler or process heater with a design heat input capacity ≥ 44 me C. Boiler or process heater with the vent stream introduced with the p D. Permitted or interim status BIF and operates in accordance with 40 	N/A_YE gawatts, rimary fuel,) CFR part 266,	ESNO
6.	 If a performance test was utilized in question #5, did it follow: (a). Method 2 in 40 CFR part 60 for velocity and volumetric flow rate?[1034(b)] (b). Method 18 in 40 CFR part 60 for organic content?[1034(c)1(ii)] (c). 3 separate runs at least 1 hour long under the conditions when the HW management unit is operating at its highest capacity level? (d). Averaging the results of all runs for the purpose of determining total 	(c)1(i)]N/A_YE N/A_YE N/A_YE	ESNO ESNO ESNO
	 organic compound concentration and mass flow rates, and computing the average on a time weighted basis? (e). The equation in §265.1034(c)1(iv) for the calculation of the mass flow ra (f). The equation in §265.1034(c)1(v) for the calculation of the annual to the calculation of the calculation of the annual to the calculation of the	.te? N/A_YE	ESNO ESNO
	 (g). Calculate the total organic emissions from all affected vents by summing the hourly total organic mass flow rate and by summing the annual total organic emission rate? (h). Excluding periods of startup, shutdown, and malfunction from the test? 	N/AYE N/AYE N/AYE	ESNO ESNO ESNO
7.	If a performance test was performed did the O/O provide the following:(a). Sampling ports adequate for the test methods?(b). Safe sampling platform(s)?(c). Safe access to the platform(s)?(d). Utilities for sampling and testing equipment?	N/AYE N/AYE N/AYE N/AYE	ESNO ESNO ESNO ESNO
8. 9.	Has the facility incorporated the scheduling of inspections for the air emission control equipment required under subpart CC in their written inspection plan?	YE	ESNO
10.	Are the readings from the monitoring device(s) inspected each operating day to proper operation of the control device(s)?	to ensure YF	ESNO
11.	If corrective measures are warranted to correct any deficiencies found during inspections are they implemented immediately?	the N/A_YI	ESNO
Secti	on P Test Methods and Procedures		
1.	Is leak detection monitoring conducted in accordance with Method 21 of 40 C	FR part 60?N/A_	_YESNO
2.	Does the detection instrument meet the performance criteria of Method 21?[10	063(b)2]N/AY	YESNO

3.	Is the instrument calibrated before use on each day of its use in accordance with Method 21?[1063(b)3]	N/A	YES	NO
4.	Are calibration gases used zero air(<10 ppm hydrocarbon) and either a mixture of			
	methane or n-hexane and air at a concentration approximately but <10,000 ppm?	N/A	_YES_	_NO
5.	When conducting leak detection monitoring is the instrument probe traversed around all potential leak interfaces as close as possible?[1063(b)5]	N/A_	_YES_	_NO
6.	If equipment is tested for compliance with no detectable emissions are the following steps followed:			
	(A). Is monitoring conducted in accordance with Method 21 of 40 CFR part 60?(B). Does the detection instrument meet the performance criteria of	N/A	_YES_	_NO
	Method 21?[1063(c)1]	N/A	YES	NO
	(C). Is the instrument calibrated before use on each day of its use in accordance with Method 21?[1063(c)1]	N/A	YES	NO
	(D). Are calibration gases used zero air (<10 ppm hydrocarbon) and either a mixtur	e of		
	methane or n-hexane and air at a concentration approximately but <10,000 pp (E). When conducting leak detection monitoring is the instrument probe traversed	m?N/A_	YES_	NO
	around all potential leak interfaces as close as possible?[1063(c)3]	N/A	YES	NO
	(F). Background level determined as set forth in Method 21?	N/A	YES	NO
	(G). The arithmetic difference between the maximum concentration detected and the	ne		
	background level is compared with 500 ppm for determining compliance?[100	53(c)4]N	/AY	ESNO
7.	In determining if the waste contained $\geq 10\%$ by weight check what was used: Sampling			
	Knowledge			
	(A). If Sampling was used, did the facility use one of the following methods:[1063 ASTM methods D2267-88, E169-87, E168-88, E260-85	(d)1]N/A	YE	S <u>N</u> O
	SW-846 methods 9060, 8260			
	(B). If sampling was used, were the samples representative of the highest total organic content expected to be contained in or contact the equipment?[1063(g)] N/A	_YES_	NO
	(C). If knowledge was used, is it documented?[1063(d)3]	N/A	_YES_	_NO
8.	If revisions were made to the waste determination was it done by sampling?[10630	(e)]N/A_	YES_	NO
9.	To determine if pumps or valves are in light liquid service did the O/O obtain vapo	r		
	ASTM D-2879-86?(Check the method used)[1063(h)]	N/A	_YES_	_NO
10.	Were performance tests used to determine if a control device achieves 95% by weight reduction in organic emissions?	N/A	YES	NO

If Yes, continue:

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	(A). Did the test use Method 2 in 40 CFR part 60 for velocity and volumetric flow	rate?N/A	A <u>Y</u> E	S <u>N</u> O
	(B). Did the test use method 18 in 40 CFR part 60 for organic content?[1034(c)1]	N/A_	_YES_	NO
	(C). Did the test consist of 3 separate runs?[1034(c)1]	N/A_	_YES_	NO
	(Note: less than 3 runs can be accepted upon approval see 1034(c)4)			
	(D). Was each run conducted for at least 1 hour under conditions of			
	highest load or capacity level?[1034(c)1]	N/A_	_YES_	NO
	(E). For the purpose of determining total organic compound concentration and mas	S		
	flow rates was the average of all runs utilized?[1034(c)1]	N/A	_YES_	NO
	(F). Was the average computed on a time weighted basis?[1034(c)1]	N/A_	_YES_	NO
	(G). Was the hourly total organic mass flow rates determined by the equation			
	found in 40 CFR 265.1034(c)1(iv)?	N/A_	_YES_	_NO
	(H). Was the annual total organic emission rate determined by the equation found in 40 CFR 265.1034(c)1(v)?	N/A_	_YES_	_NO
	(I). Was the total organic emissions from all affected process vents determined by summing the hourly total organic mass emission rates and by summing the annual total organic mass emission rates?[1034(c)1(vi)]	N/A_	_YES_	_NO
	(J). Did the O/O record process information as may be necessary to determine the conditions of the performance test?(Note: operations during periods of startup, shutdown, and malfunction are not representative)[1034(c)2]	N/A_	_YES_	NO
	(K). Are sampling ports, safe sampling platforms and safe access to the platforms available for use?[1034(c)3]	N/A_	_YES_	_NO
Section	on Q Record Keeping (Note: If more than one hazardous waste management unit is subjected to the one record keeping system may be utilized, however each record must be is management unit.)	nese req dentified	uirement d by eacl	55 1

1.	Are the following records maintained for the service life of the device: (a). Air emission control equipment design ?		YES_	_NO
2.	Is the following information recorded and kept in the operating record:[1064(b)1a	nd (g)]		
	(A). Equipment identification number and HWMU identification?	N/A	_YES_	NO
	(B). The approximate location of the equipment(maybe on a map)?	N/A	_YES_	NO
	(C). Type of equipment(e.g., pump, valve)?	N/A	YES	NO

- (C). Type of equipment(e.g., pump, valve)?
- (D). Percent by weight total organics in the hazardous waste stream at the equipment?N/A YES NO YES N/A NO
- (E). Hazardous waste state(e.g., gas/vapor, or liquid)?
- (F). Method of compliance with the standard(e.g., monthly leak detection)?
- (G). A list of equipment identification numbers designated for no detectable emissions? (Note: No detectable emissions is indicated by an instrument reading of <500ppm above background) N/A_YES_NO
- (H). Signature sign off on the no detectable emissions designation by the O/O?[1064g]N/A YES NO
- (I). For equipment designated with no detectable emissions is the following information retained: [1064(g)4]
 - 1. Dates of compliance testing(initially and annually)? N/A YES NO N/A YES NO
 - 2. Background measurement?

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N/A YES NO

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3.	Maximum instrument reading measured during each comp	pliance test?	N/A	YES_	NO
(J). A list	t of equipment that contains or contacts HW with an organ	ic concentration			
of at 1	least 10% by weight for less than 300 hours per calendar y	/ear?[1064(g)6]	N/A	_YES	_NO
If perform	nance test was used to demonstrate the efficiency of the co	ontrol			
device is a	a performance test plan maintained along with all test resu	lts?			
[1064	4(b)3]ref[1035(b)3]		N/A	_YES	NO
If	Yes, does the plan include:				
1.	A description of the determination of how the test will be	conducted	/.		
2	when the waste management unit is operating at the highe	st capacity level	? N/A_	YES	_NO
2.	A description of the estimated or design flow rate and org	ganic content		VEG	NO
2	of each vent stream?	laviaa	N/A	_YES	_NO
5.	Acceptable operating ranges of key process and control of parameters during the test program?	levice	NI/A	VES	NO
1	A detailed angineering description of the closed yent sys	tem and	IN/A	_1 ES	_NO
4.	control device?		N/A	YES	NO
5	Type of control device?		1 (/ / <u>1</u>	_1L5	_110
<i>5</i> . 6.	Manufacturer's name and model number?				
7.	Dimensions, capacity, and construction material of the co	ontrol device?			
8.	A detailed description of sampling and monitoring proce	dures	N/A	YES	NO
	Including:				
	A. Sampling locations and frequency?	YESN	NO		
	B. Monitoring locations and frequency?	YES <u>N</u> O			
	C. Equipment to be used?	YESNO			
	D. Analytical procedures for sample analysis?	YESN	NO		
If a desigi	n analysis was used to demonstrate compliance for the clo	sed vent			
system is	the following documentation maintained: [1064(b)4]ref[1	035(b)4]			
1.	A list of all information references and sources used.		N/A	_YES	NO
2.	Records of compliance testing including dates (no detects	able			
	emissions or negative pressure).		N/A	_YES	_NO
3.	If engineering calculations are used in the design analysis	s of a control			
	device are the specifications, drawings, schematics, pipin	ig, and			
	instrumentation diagrams along with design documentation	ion provided		VEC	
1	by the manufacturer or vendor maintained?	used in the	N/A	YES_	_NO
4.	A certification by the 0/0 that the operating parameters to	used in the			
	at the highest expective level? [1035(b)4(iv)]	ne unit is operati	ng		
5	at the highest capacity level? $[1055(0)4(1v)]$	med to			
5.	operate at $> 95\%$ efficiency unless the total organic conc	entration			
	limit or total organic emission limit of \$265 1032(a) is ac	hieved at			
	an efficiency < 95 weight percent? (Note: The control dev	ice used to			
	obtain emission limits must involve vapor recovery)		N/A	YES_	NO
O	R				
	A certification by the control device manufacture or vend	lor that the			
	device meets the design specifications.		N/A	YES	NO

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5.	If performance tests are used to demonstrate compliance, are all test result [1064(b)4]ref [1035(b)4(vi)]	s maintained? N/A_	YES	_NO
6.	When each leak is detected for which repairs are warranted is the followin (A). Equipment marked (weatherproof and readily visible) with the identific number, date of potential leak discovered, and the date the leak was d	g achieved: ication	VES	NO
	 (B). The identification on the equipment(except valve) may be removed up successful completion of the repair, (C). The identification on a valve may be removed after it has been monitored. 	pon the N/A_	YES	_NO
	2 successive months with no leaks detected.	N/A_	_YES_	_NO
7.	If a leak was detected for which repairs are warranted is the following information in the inspection log?[1064(d)]	ormation N/A_ N/A	YES	_NO
	 (A). The equipment, instrument and operator identification numbers? (B). If a potential leak is detected by visual, audible or olfactory is the date (C) The date of leak detection and date(s) of repair attempts? 	e noted? N/A_ N/A	YES YES	_NO _NO
	(D). Repair methods applied in each attempt?(E). If the maximum reading by instrument for Method 21 is 10,000 is "about the second s	N/A_ ove 10,000"	YES	_NO
	noted in the log for readings $\geq 10,000$? (F). If a leak is not repaired within 15 days after discovery is "repair delayed	ed"	_YES_	_NO
	 (G). Is documentation supporting the repair delay noted in the log? (H). Signature of the person making the decision that the repair could not l 	N/A_ N/A_	YESYESYES	_NO _NO
	(I) significate of an person maning the december that the repair event and the repair	N/A_ f discovery?N/A	YES YES_	_NO NO
	(J). The date of successful repair of the leak?(K). Are records maintained for three(3) years?[1064(1)]	N/A_ N/A_	YES YES	_NO _NO
8.	Is design documentation and monitoring, operating, and inspection inform for each closed vent system and control device recorded in the operating re and kept up-to-date?[1064(e)]ref[1035(c)] Does the information include:	ation ecord N/A_	YES	_NO
	(A). Is a description and date of any modification made to the closed vent and control device maintained? [1035(c)1]	system N/A_	YES	_NO
	(B). Have operating parameters, description of monitoring device, and diag monitoring sensor location (or locations) been identified for the close system and control device and recorded in the operating record? [103	gram of ed vent 5(c)2] N/A_	YES	_NO
	 (C). Monitoring, operating and inspection information? (D). Date, time and duration of each period that occurs while the control d operating when any monitored parameter exceeds the value established control device design analysis including as specified: When a thermal vapor incinerator designed to operate with a minimum sector. 	N/A_ evice is ed in the nimum	_YES_	_NO
	residence time of 0.50 seconds at a minimum temperature of 76 combustion temperature is below 760 $^{\circ}$ C?	0 °C N/A_	_YES_	_NO

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 When a thermal vapor incinerator designed to oper emission reduction efficiency of ≥95% the combu is more than 28°C below the design average comb 	rate with an organic stion zone temperature bustion zone temperature? N/A YES NO
3. For a catalytic vapor incinerator the period when the stream at the catalyst bed inlet is more than 28°C be tamperature of the established inlet yeart stream?	emperature of the vent below the average
4. For a catalytic vapor incinerator when the temperative the catalyst bed is less than 80% of the design aver	ture difference across rage temperature
difference?5. Period when the flame zone temperature is more the established design average flame zone temperature	N/A_YES_NO han 28°C below the e for a boiler or
 process heater? (1035(c)4(iv)A) (note: average flame zone is established per [1035(6. Position changes where the vent stream is introduc 	(b)4(iii)C]) N/A_YES_NO ced to the combustion
zone from the established location for a boiler or p [1035(c)4(iv)B] (note: location established per [10	process heater? N/A_YES_NO N/A_YES_NO N/A_YES_NO
 Ferrod when the prot name is not ignited for a man 8. For a condenser monitored by a device equipped w to measure the concentration level of the organic co- vent stream, period when the organic compound co- readings of organic compounds in the exhaust vent design outlet organic compound concentration level (Note: design outlet organic comp. conc. level est. 	with a continuous recorder compounds in the exhaust concentration level or t are > 20% the established el?[1035(c)4(vi)] per [1035(b) 4(iii)E]) N/A_YES_NO
 9. For a condenser equipped with a temperature monit continuous recorder capable of monitoring temperator of ±1% or ±5°C of the temperature which ever is get the temperature of the exhaust vent stream from the 6°C above the design average exhaust vent stream (Note: Exhaust vent stream temperature established) 	itoring device and ature with an accuracy greater, periods when he condenser is more than in temperature.
10. For a condenser equipped with a temperature continuous recorder capable of monitoring temperator of $\pm 1\%$ or ± 5 °C of the temperature which ever is g coolant fluid exiting the condenser is more than 6° coolant fluid temperature at the condenser outlet. [temperature established per 1035(b)4(iii)E]	hitoring device and ature with an accuracy greater, periods when the ^o C above the design average Note: condenser outlet N/A_YES_NO
11. For a carbon adsorption system that regenerates the on-site in the control device and is equipped with a with a continuous recorder to measure the concent compounds in the exhaust vent stream, period whe concentration level or readings of organic compound stream are more than 20% greater than the design.	ne carbon bed directly a monitoring device tration level of the organic en the organic compound unds in the exhaust vent . [note: design established
 12. For a carbon adsorption system that regenerates the on-site in the control device and is equipped with a with a continuous recorder to measure a parameter bed is regenerated on a regular predetermined time vent stream continues to flow through the control 	ne carbon bed directly a monitoring device or that indicates the carbon e cycle, period when the device beyond the

predetermined regeneration time. [Note; regeneration time established per

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	1035(b)4(iii)F]	N/A_	_YES_	_NO	
	(E). Explanation for each period identified in D1-12 above of the cause for control device operating parameter exceeding the design value and the measures implemented to correct the control device operation. [1035(c)5]	N/A_	_YES_	_NO	
	(F). For carbon adsorption systems date when existing carbon is replace with fresh carbon. [1035(c)6]	N/A	YES	NO	
	(G). For a carbon adsorption system that is not regenerated on-site(such as a canist is a log containing the following maintained: date and time when control devi is monitored for carbon breakthrough and the monitoring device reading; date	er) ce			
	when existing carbon is replaced? [1035(c)7]	N/A	_YES_	_NO	
	(H). Date of each control device startup and shutdown?[1035(c)8]	N/A	_YES_	_NO	
	(I). Any components designated as unsafe to monitor their identification number and explanation as to why it is unsafe to monitor and the plan for monitoring?	2			
	[1035(c)9]	N/A_	_YES_	_NO	
	(J). When a leak is detected the date of detection, the date of first attempt at repair the date of successful repair, the instrument identification number used, the equipment identification number, maximum instrument reading measured by method 21 after it is successfully repaired or determined to be nonrepairable	·,			
	 (K). If the repair is delayed(not completed in 15 days) the reason for the delay. (Note: the O/O may have a written procedures that identifies the conditions that justify a delay of repair. In such cases, reasons for delay may be 	N/A	_YES_	_NO	
	 documented by citing the relevant sections of the procedure.)[1035(c)10(v)] (L). If the delay of repair was due to depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked on-site before depletion and the mason for depletion 211025(a)10(v)Pl 	N/A	_YES_	_NO	
	depiction and the reason for depiction $(1055(C)10(V)B)$	IN/A	_IES	_NO	
	(M). Are records under question 8 maintained for three(3) years?[1064(1)]	N/A	YES_	_NO	
9.	For a control device other than a thermal vapor incinerator, catalytic vapor incineration, boiler, process heater, condenser, or carbon adsorption system is monitoring inspection information indicating proper operation and maintenance of the control	ator, and			
	device recorded in the operating record?[1064(f)	N/A_	_YES_	NO	
10.	For valves designated as unsafe or difficult to monitor is the following information	ı recorde	ed:		
	(A). Identification numbers?	N/A_	_YES_	_NO	
	(B). Explanation why each valve is unsafe or difficult to monitor?	N/A_	_YES_	NO	
	(C). A monitoring plan for each valve?	N/A_	_YES_	_NO	
11.	For valves in gas/vapor service or in light liquid service operating under alternative standards(skip period leak detection and repair) is the following recorder	ed:			
	(A). A schedule for monitoring?	N/A_	_YES_	NO	
	(B). The percent of valves found leaking during each monitoring period?	N/A	_YES_	_NO	
12.	For Pumps in light liquid service and compressors is the criterion, developed by the O/O, recorded which will indicate the failure of the seal system, the				
	barrier fluid system or both(including changes)?[1064(j)]	N/A_	_YES_	NO	