INSPECTION CHECKLIST

Off-Site Waste and Recovery Operations

Drafted: June 14, 2001

Disclaimer:

This is a checklist designed to assist agency inspectors (Federal, State, Local, Tribal and others) as well as facility owners, operators and responsible employees to investigate and/or monitor compliance with the Off-Site Waste and Recovery Operations MACT (40 CFR Part 63, Subpart DD). This checklist does not represent all requirements of the regulation nor does it represent agency positions in any way related to the Off-Site Waste and Recovery Operations MACT. Completion, or lack thereof, does not prevent an agency from taking appropriate actions (seeking information, enforcement, etc.) at any time regarding compliance with the Off-Site Waste and Recovery Operations MACT or other regulations.

Additional Subpart DD guidance, currently displayed on the OAQPS TTN (http://www.epa.gov/ttn/atw/offwaste/oswropg.html), is as follows:

"Implementation Guidance for Off-Site Waste and Recovery Operations (OSWRO) NESHAP: Interrelationships with Other Related EPA Air Rules (EPA - 305-00-006)" http://www.epa.gov/ttn/atw/offwaste/oecatool.pdf

"OSWRO Implementation Assistance Document (EPA-456/R-99-007)" http://www.epa.gov/ttn/atw/offwaste/oswroimp.pdf

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OSWRO-CHECKLIST SUMMARY Modified: May 4, 2001

Faci	lity	Name:			
	_				
Faci	lity	Address: _			
		_			
Mail	ing A	Address: _			
		_			<u></u>
Faci	lity	SIC Code(s)	:		
Cont	act/	Title Name:			
Tele	phone	Number:			
	_	_			
Numb	er of	Employees:	Hours	of Operation:	
Dato	of -	Inspection:			
Date	OL .	inspection:			
40 C Sour		3.680; Appli	cability and Designa	ation of Affected	
a)	App]	icability:			
	1)	Is the fac	ility a major source	YES	NO
		(10/25 TPY	•		_
	2)		acility handle "off- which is not exempt?	site" YES	NO
	3)		acility have one or	more of the foll	owina
	3 /		gement or recovery o		0 1111
			manages, treats, rec		sses
			aterial <u>[40 CFR 63.6</u>	<u> </u>	
		i) A wast	te management operat	ion	YES
		regula	ated as a TSDF under	RCRA?	NO

¹In general, off-site material is: A waste, used oil and/or used solvent which contains one or more HAP listed in Table 1, at the point-of-delivery, and is generated outside the boundaries of the plant site.

ii) A waste management operation that YES NO

treats wastewater and is exempt from regulation as a TSDF under RCRA?

iii) A waste management operation that

YES NO

treats wastewater and

A) Is permitted for discharge from YES NO a point source but is not owned by a "State" or "Municipality"?

YES NO

B)

Where treatment of wastewater

		received from predominant at the plant	activity pe		
	iv)	-		at recycles or	re-
		processes			
	A				NO
		from regulat	ion as a TS	DF under	
	В	RCRA?	and is not	nart of a	YES
	ь) Used solvent	and is not	part or a	NO
		chemical, pe	troleum, or	other	210
		manufacturin		-	
		to control a		-	
	\ 7	subpart of 4			MO
		recovery operat r re-processes u			NO
		egulated under 4			
4)		e Facility claim		_	YES
					NO
		ion because it r			
		al(s) with < 1 m HAP(s) <u>[40 CFR</u>	-		
	aiiiuai	HAF (S) 140 CFR	<u>05.000(47)</u> :		
b) Affe	ected Sour	ce Identification	on:		
1)	Does t	he facility have	any of the	e following "o	ff-
		aterial manageme			the
		ions identified <u>R 63.680(c)(1)]</u> ?		v), above	
	i) Ta			many?)
	1) 10		NO (110 W		/
	ii)	Containers	YES	(How	
				many?)
			NO		
	iii)	Surface	YES	(How	
		barrace	125	many?)
	Ir	mpoundments	NO	•	<i>,</i>
	<u> </u>	0-11		/ 11	
	iv)	Oil-water	YES	(How many?	١
				many:	/

 $^{^2 \! \}text{One Megagram}$ is approximately one metric ton or 2204 pounds.

		4		Dra	ft Doci	ument, June 14, 2001	
	Separators	ľ	10				
v)	Organic-water			YES	(How	· ·?)	
	Separators	ľ	10		marry	:	
vi)	Transfer				YES	(How many?)	
	Systems	ı	10			<i>·</i>	

2) Does the Facility have one or more of the following processes, within the operations identified in (a)(3)(i-v) above, which have at least one Process Vent³

[40 CFR 63.680(c)(2)]?

i)	Distillation Process?	YES	NO
ii)	Fractionation Process?		YES
			NO
iii)	Thin-film Evaporation Process?		YES
			NO
iv)	Solvent Extraction Process?		YES
			NO
v)	Steam Stripping Process?		YES
			NO
vi)	Gas Stripping Process?		YES
			NO

NOTE: For each process vent identified in (b)(2), the facility must control it using a closed-vent system vented to a control device [40 CFR 63.690].

3) Does the Facility have any of the following equipment components, within the operations identified in (a)(3)(i-v) above⁴ (for purposes of LDAR) [40 CFR 63.680(c)(3)]?

	<u> 140 CFR 63.680(C)(3) </u> ? Pumps	YES NO	(How	many?)
ii)	Compressors	NO	YES	(How many?)
iii)	Agitators	YES	(How	many?)

³A process vent means an open-ended pipe, stack or duct through which a gas stream containing HAP is continuously or intermittently discharged to the atmosphere from any of the processes listed. [NOTE: A tank or container may serve as a process vent for one of these processes].

 $^{^4}$ The equipment of interest is that equipment which contacts off-site waste with a total HAP concentration \$ 10% by weight, and operates \$ 300 hours in a calendar year in off-site material service

many?____)

lines NO

the point-of-delivery, initially and each

Is the Facility claiming one or more exemptions

a)

2)

3)

4)

2)

3)

year thereafter?

b)

[40 CFR 63.683(c)(2)]?

YES: Which one(s)?

Go to (c) NO:

c. Has the Facility implemented leak detection YES NO

and control measures in accordance with 40 CFR 63.691 [40 CFR 63.683(d)]?

		9 Dian Document, June	5 14, 2001
40	CFR 63	3.684; Off-site Material Treatment:	
a)	Whic	ch of the following methods is used to remove otroy HAP [40 CFR 63.684(b)]?	r
	1)	Reduce VOHAP concentration of off-site	YES NO
	2)	material using a means other than dilution? HAP mass removal? YE	
	3)	HAP reduction efficiency?	
	4)	Biodegradation performed in an YE open tank or surface impoundment?	s no
	5)	Incineration ⁵ ? YE	s no
b)	requ [(a)	the O/O demonstrated compliance with virements one of the above requirements $(1)-(a)(4)$ within 30 days of initial atment [40 CFR 63.684(d)]?	s no
c)		the O/O performing the following continuous montreatment process [40 CFR 63.684(e)(1-3)]? Continuously monitor and record (at least once 15 minutes) values of operating parameters appropriate for the treatment process? YES: What parameter(s)?	
		<u> </u>	
		NO: Continue	
	2)	For each monitored operating parameter in (c) what is the minimum or maximum operating parameter?	
		Parameter(s)? Value (min/max)?	

³⁾ Does 0/0 routinely review the treatment YES NO process data and operate the process between the minimum and maximum values?

⁵Incineration using an incinerator or BIF either permitted under RCRA or complying with interim status requirements under RCRA.

4) For Biological degradation, has the 0/0 YES NO established a written monitoring procedure that demonstrates proper operation [40 CFR 63.694(h)]?

40 CFR 63.685; Standards: Tanks;

- a) Has the O/O controlled air emissions from YES NO each tank subject to this section in accordance with the applicable requirements in Table 1 or Table 2 (on next page) [40 CFR 63.685(b)]?
 - Does the Facility have one or more tanks that manages off-site material with a max organic VP \$76.6 kPa

[40 CFR 63.685(b)(4)]?

YES: How many? ______ **NO:** Go to (b)

- 2) Is the O/O controlling each tank in (a)(1) using one of the following?
 - i) A closed vent system vented to a YES NO

control device [40 CFR 63.685(g)]?

ii) A pressure tank [40 CFR 63.685(h)]? **YES**

NO

YES NO

iii) A tank within a total enclosure,

vented through a closed-vent
system to a control device
[40 CFR 63.685(i)]

Table 1: For tanks at an existing affected source:

Tank design capacity (m³)	Max HAP VP (kPa)	Tank control level				
< 75.5	<76.6	Level 1:[Go to (b)(1)]				
\$75.5 but <151	<27.6 \$ 27.6	Level 1:[Go to (b)(1)] Level 2:[Go to (b)(2)]				
\$ 151	< 5.2 \$ 5.2	Level 1:[Go to (b)(1)] Level 2:[Go to (b)(2)]				

- 1	
_1	. 4

Tank used for a	NA	Level 2:[Go to
waste stabilization		(b)(2)]
process		

Table	2:	For	tanks	at.	а	new	affected	source:
Table	∠ •	T. O.T.	cams	$a\iota$	a	TIEM	arrected	BOUTCE

Tank design capacity (m³)	Max HAP VP (kPa)	Tank control level
<38	<76.6	Level 1:[Go to (b)(1)]
\$38 but < 151	<13.1 \$ 13.1	Level 1:[Go to (b)(1)] Level 2:[Go to (b)(2)]
>151	< .7 \$.7	Level 1:[Go to (b)(1)] Level 2:[Go to (b)(2)]
Tank used for a waste stabilization process	NA	Level 2:[Go to (b)(2)]

Note: To convert [gal] to $[m^3]$ multiply by 0.003785

To convert [L] to $[m^3]$ multiply by 0.001

To convert [mmHq] to [kPa] multiply by 0.1333

To convert [inches of H_2O] to [kPa] multiply by

0.2491

To convert [PSI] to [kPa] multiply by 6.894

To convert [millibar] to [kPa] multiply by 0.1

To convert [atmosphere] to [kPa] multiply by 101.325

- b) Level 1 requirements:
 - 1) Which of the following Level 1 control options is the 0/0 using to comply [40 CFR 63.685(c)(2)]?
 - i) 40 CFR 63 subpart 00?

YES NO

ii) Level 2 controls?

YES NO

iii) Using tank as an interim transfer

YES NO

point⁶?

2) Which of the following Level 2 control options is the O/O using to comply [40 CFR 63.685(d)(1-5)]?

⁶Interim transfer point tanks must be controlled in accordance with OO except during transfer activities when a cover is not necessary.

i) Fixed roof (FR) with internal floating roof

(IFR)?

YES: Worksheet A

NO

ii) External floating roof (EFR)?

YES: Worksheet B

NO

iii) Tank vented through closed-vent system

(CVS) to control device?

YES: Worksheet C

NO

iv) Pressure tank?

YES: Worksheet D

NO

v) Enclosure vented through a CVS to a combustion device?

YES: Worksheet E

NO

40 CFR 63.686; Standards: Oil-water and organic-water separators:

Which of the following method(s) of control is (are) being used?

1) Floating Roof Separator?

YES: Worksheet F

NO

3) Fixed-roof vented through a CVS to a Control device?

YES: Worksheet G

NO

2) Pressurized Separator Operated as a Closed System?

YES: Worksheet H

NO

40 CFR 63.687; Standards: Surface Impoundments:

Which of the following control options is the O/O using to comply?

1) A floating membrane cover?

YES: Worksheet I

NO

2) A cover vented through a closed-vent system to a control device?

YES: Worksheet J

NO

40 CFR 63.688; Standards: Containers:

Has the O/O controlled air emissions from each YES NO container subject to this section in accordance with the following applicable requirements in Table 3 [40 CFR Part 63, Subpart PP]?

Table 3

Design Capacity of Container	Container control level
> 0.1m³ and < 0.46m³ (NOT in "light-material" service)	Level 1 Controls ⁷ (Worksheet K)
>0.46m³ (In "light-material" service)	Level 2 Controls ⁸ (Worksheet L)
>0.1m³ and used for treatment of an Off-site material by a "waste stabilization process"	Level 3 Controls ⁹ (Worksheet M)

Note: To convert [gal] to $[m^3]$ multiply by 0.003785 To convert [L] to $[m^3]$ multiply by 0.001

40 CFR 63.689; Standards: Transfer Systems:

a)	Which o	f the	following	types	of	transfer	systems	does	the
	facilit	y own	or operate	∋?					

1) An individual drain system?

YES: Worksheet N

NO

2) Another transfer system?

YES: What kind? _____

NO

- b) Which of the following is the Facility using to control air emissions from transfer systems which are not individual drain systems [40 CFR 63.689(c)]?
 - 1) Covers? YES NO
 - 2) A hard-piped transfer system whose joints YES NO or seams are permanently or semi-permanently sealed?
 - 3) An enclosed transfer system operated at a YES NO

⁷Level 1 control options include: containers meeting applicable DOT regulations, covers/closure devices or open-top with a vapor suppression barrier on regulated material.

⁸Level 2 control options include: containers meeting applicable DOT regulations, no detectable emissions (M21) or vapor-tight containers (M27).

⁹Level 3 control options include: venting container through a CVS to a control device or a container within a total enclosure which is exhausted through a CVS to a control device.

pressure below atmospheric pressure and vented through a CVS to a control device?

40 CFR 63.691; Standards: Equipment Leaks:

- Which of the following methods is the O/O using to a) control HAP emitted from equipment leaks (Note it may be both)?
 - 1) 40 CFR Part 61 subpart V [40 CFR §§61.242-247]? Worksheet O YES:

NO

(2) 40 CFR Part 63 subpart H (40 CFR §§63.162-182)? Worksheet P

YES:

NO

40 CFR 63.693; Closed-vent systems and Control Devices:

- Which of the following CVS is the O/O using to comply? a)
 - A closed vent system designed to operate w/ no detectable organic emissions?
 - 2) A closed vent system designed to operate YES NO below atmospheric pressure and equipped with at least one pressure measurement device?
- Which of the following control device technologies has b) the 0/0 elected to use to comply?
 - Carbon adsorption?

Regenerative or Non-regenerative? YES:

NO

2) Condenser?

YES

NO

3) Vapor Incinerator?

> YES: Thermal or Catalytic?

NO

Boilers and/or process heater? 4)

> YES: Boiler or Process heater?

NO

Flare? 5)

YES

NO

C) Does the CVS have a bypass device YES

NO

[40 CFR 63.693(c)(2)]?

Is the bypass device equipped with one of the following d)

[40 CFR 63.693(c)(2)(i-ii)]?

1) A flow indicator installed at the entrance YES NO to the bypass line and designed to take a flow reading at least once every 15-minutes? 2) A car-seal or lock-and-key type seal YES NO maintained in the non-diverting position and visually inspected at least once a month?

Record-keeping and Reporting Requirements:

- a) Has the O/O complied with general record-keeping requirements which includes maintaining records of the following [40 CFR §63.10]:
 - 1) Each occurrence and duration of each startup, shutdown, or malfunction of operation?
 - 2) Actions taken during periods of startup, YES NO shutdown, or malfunction?
 - 3) All continuous monitoring system (CMS) YES NO

calibration checks?

- 4) All adjustments and maintenance performed **YES NO** on CMS?
- 5) All documentation concerning any internal **YES NO** floating roof?
- 6) Control device design analysis and/or YES NO

continuous monitoring records?

SPECIFIC RECORD-KEEPING REQUIREMENTS FOR OFF-SITE MACT:

a) This section is a reference section which provides specific record-keeping requirements of the OSWRO MACT. Applicable requirements given below should be reviewed for each piece of equipment to which it is applicable and noted on the appropriate worksheet. These requirements can be found in the record-keeping section of the Off-Site MACT [40 CFR 63.696].

b) Tank Record-keeping Requirements

- Tanks include those controlled with an internal floating roof (IFR), external floating roof (EFR), fixed roof vented to a control device (FRCD), tank(s) enclosure (TE) and pressure tanks (PT).
- 2) For each IFR, EFR and FRCD the O/O should maintain a record for:
 - i) Each tank inspection which includes the following information:
 - A) A tank identification number (or other

unique identification description), and $\mbox{\ensuremath{\mathtt{B}}})$ The date of the inspection.

- ii) Each defect detected during tank inspections
 which includes the following:
 - A) Location of the defect,
 - B) A description of the defect,
 - C) The date of detection, and
 - D) Corrective action taken to repair the defect.
 - E) In the event that repair of the defect is delayed, the record must also include:
 - (a) The reason for the delay and
 - (b) The date that completion of repair of the defect is expected.
- 3) For each IFR and EFR, documentation describing the floating roof design and the dimensions of the tank.
- 4) For each EFR a record of each seal gap inspection. Each record must include:
 - i) Results of the seal gap measurements,
 - ii) Date the measurements are performed,
 - iii) Raw data obtained for the measurements, and
 - iv) Calculations of the total gap surface area.
 - v) If the seal gap measurements do not conform to the specifications, the records must also include
 - A) A description of the repairs that were made,
 - B) Date(s) the repairs were made, and
 - C) Date the tank was emptied, if necessary.
- 5) For each TE, a record of the most recent set of calculations and measurements performed by the owner or operator to verify the enclosure meets the criteria of a permanent total enclosure (see specifications in Procedure T under 40 CFR 52.741, Appendix B).

c) Control Device Record-keeping Requirements

- 1) Semi-annual records for planned routine maintenance of control devices which would cause the control device to violate applicable requirements of 40 CFR §63.693(d) through (h). Each record must include:
 - i) A description of routine maintenance performed for the Control device during the <u>previous 6</u>

months. This description must include:

- A) The type of maintenance performed, and
- B) The total number of hours, during these 6 months, the Control device did not meet the applicable requirement(s) due to planned routine maintenance.

- ii) A description of the planned routine maintenance to be performed for the Control device during the next 6 months. This description must include:
 - A) The type of maintenance necessary,
 - B) Planned frequency of maintenance, and
 - C) Lengths of maintenance periods.
- 2) Semi-annual??? records of unexpected control device system malfunctions which would cause the control device to violate the applicable requirements of 40 CFR §63.693(d) through (h). These records must include:
 - i) The occurrence and duration of each malfunction of the control device system.
 - ii) The duration of each malfunction period when gases, vapors, or fumes are vented to the control device while the control device is not properly functioning.
 - iii) Actions taken during periods of malfunction to restore the malfunctioning control device to its normal or usual manner of operation.
- b) Has the O/O complied with general reporting requirements which includes submitting the following reports [40 CFR §63.9 and §63.10]:

1)	Progress reports?	YES	NO
2)	Periodic or immediate startup, shutdown,	YES	NO
	and malfunction reports?		
3)	Waiver of reporting requirements?		YES
			NO
4)	Notification to the Administrator in	YES	NO
	advance of each initial inspection		
	required for tanks, control devices,		
	CVS, transfer systems, etc.		
	[40 CFR 63.695(b-f)]?		
5)	Initial notifications (October 19, 1999)?	YES	NO
•		IES	
6)	Notification of compliance status?		YES
			ИО
7)	Notification of performance tests?		YES
			NO
	[40 CFR 63.7 and 40 CFR 63.9]?		
8)	Results of any performance tests	YES	NO
• ,	results of any Ferrest marries seems		

	[40 CFR 63.10(d)(2)]?	
9)	Semi-annual summary reports on excess	YES
		NO
	emissions and CMS performance reports	
	[40 CFR 63.10(e)(3)]?	
10)	Internal floating roof inspection records?	YES
		NO
11)	External floating roof inspections records?	YESNO
12)	Semi-annual reports which describe	YES
		NO
	completed or planned routine maintenance	

performed in the previous 6 months and anticipated in the next 6 months?

SPECIFIC REPORTING REQUIREMENTS:

- a) This section is a reference section which provides specific reporting requirements of the OSWRO MACT. Applicable requirements given below should be reviewed for each piece of equipment to which it is applicable and noted on the appropriate worksheet. These requirements can be found in the reporting section of the Off-Site MACT [40 CFR 63.697].
- b) When a control device is used to comply with applicable requirements, the following notifications and reports must be submitted:
 - 1) Notification of performance tests (at least 14-days before testing???)
 - 2) Performance test reports
 - 3) Start-up, shut-down and malfunction (SSMP) reports.
 These reports must include:
 - i) A letter containing:
 - (A) The name, title and signature of responsible official certifying the accuracy of the report
 - (B) Information indicating any time when actions taken during the SSMP of an affected source were not consistent with the SSMP plan
 - ii) This report is not necessary if the information is included in the semi-annual summary report.
 - 4) Semi-annual summary reports must include all excursions which occurred during the six-month reporting period:
 - i) For each excursion caused by a daily average values violating applicable requirements the summary report must include:
 - (A) The daily average values of the monitored parameter,
 - (B) The applicable operating parameter limit, and
 - (C) The date and duration of each excursion
 - ii) For each excursion caused by a lack of

monitoring, the summary report must
include:

- (A) The date and duration of the period when data was not collected, and
- (B) The reason the data was not collected
- c) Tank inspection reporting (IFR and/or EFR)
 - 1) A notification to the Administrator is required to be received at least 30-days prior to each inspection to measure EFR seal gaps.
 - 2) A notification to the Administrator is required to be

received at least 30-days prior to each planned visual inspection of an IFR or EFR in a tank which has been emptied and degassed.

3) A notification to the Administrator is required to be received at least 7-days prior to refilling of a tank when an unplanned visual inspection of an IFR or EFR occurred.

Key Word	Regulatory Citation*
Closed-vent System and Control device	§63.693(b)(4,6,7),(c)(2); §63.696(b,g,); §63.697(b)
Internal floating roof	§63.696(d); §63.697(c)
External floating roof	§63.696(d); §63.697(c)
Fixed roof	§63.696(e)
<u>Enclosure</u>	§63.696(f)
<u>Tank</u>	§63.694(j)(2)(i), (j)(3); §63.696(d-f); §63.697(c)
Inspection	§63.693(b)(4)(i-ii), (c)(2)(ii); §63.695(b)(1-4), (c)(1-3), (d)(4-5), (f)(2); §63.696(d)(2-4), (e)(1-2); §63.697(c)
<u>Defect</u>	§63.695(b)(4)(i); §63.696(d)(3),
Flow indicator	(e)(2) §63.693(c)(2)(i)
Seal or Locking Device	§63.693(c)(2)(ii)
Seal Gap	§63.696(d)(4); §63.697(c)(1)
Performance Test	§63.697(b)(1-2);
Malfunction	§63.696(h); §63.697(b)(3)
	-62 606/ N

The regulatory citation is to paragraphs containing

§63.696(g)

Routine Maintenance

record-keeping and reporting requirements. This table does not include the notification, record-keeping, and reporting requirements in §§ 63.9 and 63.10 under 40 CFR 63 subpart A

WORKSHEET A

		nformation:		
Tota	⊥ Num	ber of These Tanks:		
Tank	Numb	er(s):		
Off-	site	Material Handled by Tank(s):		
Inst	allat	ion Date(s):		
DIZE	OL I	ank(s) [m³]:		
Max.	Vapo	r Pressure of off-site material [kP]:		
Max.	HAP	Vapor Pressure of off-site material [kP]:		
	consi rial:	dered for Max. HAP Vapor Pressure of off-si	te	
<u>Leve</u> a)	Whic	_	IFR YES	NO
	2)	A single continuous metallic shoe seal? Two continuous seals mounted one above the other?	YES	NO YES NO
b)	Does 1)	the IFR meet the following specifications? Each opening in a non-contact IFR provides a projection below the liquid surface?	YES	NO
	2)	Each opening has a cover or lid equipped with a gasket?	YES	NO
	3)	Each penetration (used for the purpose		YES NO
	4)	of sampling) has a slit fabric cover that covers at least 90 percent of the opening? Each automatic bleeder vent and rim space	YES	NO
	5)	vent have a gasket? Each penetration allowing passage of a		YES

ladder has a gasket? Each penetration allowing passage of a 6) YES NO column supporting the fixed roof has a flexible fabric sleeve seal or a gasket? Is the O/O operating the tank as follows? C) The process of filling, emptying or YES NO refilling is continuous and accomplished as soon as practical when the floating roof is resting on the leg supports? 2) The automatic bleeder vent(s) is (are) YES NO set closed at all times when the roof is floating?

- 3) Each cover, access hatch, gauge float well or lid on any opening in the IFR is bolted or fastened closed prior to filling the tank?
- 4) The rim space vents are set open only when the IFR is not floating or the pressure beneath the rim exceeds the manufacturer's recommended setting?
- d) Which of the following inspection methods is the O/O using to comply with 40 CFR 63.685(e)(3)?
 - 1) Visually inspect the IFR components YES NO (and IFR) annually through hatches and every 10-years directly?
 - Visually inspect the IFR components YES NO (and IFR) each time the tank is de-gassed and at least every 5-years directly?

REPORTING/RECORD-KEEPING REQUIREMENTS.

Refer to main checklist for these requirements.

WORKSHEET B

		nformation: ber of These Tanks:	
		er(s):	
Taim	Ivanio		
Off-	site	Material Handled by Tank(s):	
Inst	allat	ion Date(s):	
Size	of T	ank(s) [m³]:	
Max.	Vapo	r Pressure of off-site material [kP]:	
Max.	HAP	Vapor Pressure of off-site material [kP]:	
	consi rial:	dered for Max. HAP Vapor Pressure of off-site	
<u>Leve</u> a)		Control Requirements: The EFR equipped with two continuous seals? YES Which of the following lower seals is the roof equipped with? i) A liquid-mounted seal? YES ii) A metallic shoe seal?	NO NO YES
b)		Does the upper seal (secondary seal) cover the annular space between the floating roof and the wall of the tank? the EFR meet the following specifications? Each opening in a non-contact EFR	NO NO YES
	2)	provides a projection below the liquid surface? Each opening has a cover, seal or lid	NO YES NO
	3)	equipped with a gasket? Each access hatch and each gauge float well has a cover designed to be bolted	YES NO

	or fastened when the cover is in the closed position?		
4)	Each automatic bleeder vent and rim	YES	NO
5)	space vent has a gasket? Each roof drain that empties into the		YES NO
	liquid managed has a slotted membrane fabric cover that covers at least 90 percent of the opening?		
6)	Each un-slotted and slotted guide pole		YES NO
	has a sliding cover with a gasket or a flexible fabric sleeve seal?		
7)	Each un-slotted guide pole has a cap	YES	NO
8)	with a gasket on the end of the pole? Each slotted guide pole has a float with a gasket or other device which	YES	NO

	9)	closes off the surface from the atmosphere Each gauge hatch and each sample well		YES NO
c)	Is tl	has a cover with a gasket? he 0/0 operating the tank as follows The process of filling, emptying or refilling is continuous and accomplished as soon as practical when the floating roof is resting on the leg supports?	YES	NO
	2)	Each automatic bleeder vent, rim space		YES NO
	3)	vent, roof drain and leg sleeve is set closed at all times? Each cover, access hatch, gauge float		YES
		well or lid on any opening in the IFR is bolted or fastened closed prior to filling the tank?		NO
	4)	The rim space vents are set open only		YES NO
	5)	when the IFR is not floating or the pressure beneath rim exceeds the manufacturer's recommended setting? The cap on the end of each un-slotted		YES NO
	6)	guide pole is secured in the closed position at all times except when measuring the level or collecting samples from the tank? The cover on each gauge hatch or sample	YES	NO
d)	Tg t]	well is secured in the closed position at all times except when the hatch or well must be opened for access? he O/O using the following inspection method	s to	
α,		ly with 40 CFR 63.685(f)(3)? Visually inspect the EFR initially	YES	NO
	·	<pre>and annually thereafter [40 CFR 63.695(b)(2)(i)]?</pre>	1115	NO
	2)	Measure the seal gaps as follows [40 CFR 63.695(b)(2)(ii)]:		
		i) Primary seal 60-days after initial start-up and at least once every	YES	NO
		5-years thereafter? ii) Secondary seal 60-days after init:	ial	YES

NO

start-up and at least once every year thereafter?

REPORTING/RECORD-KEEPING REQUIREMENTS.

WORKSHEET C

	ral Information: 1 Number of These Tanks:		
1004	.i Number of These Tanks:		
Tank	Number(s):		
Off-	site Material Handled by Tank(s):		
Inst	allation Date(s):		
Size	of Tank(s) [m³]:		
Max.	Vapor Pressure of off-site material [kP]:		
Max.	HAP Vapor Pressure of off-site material [kP]:		
	considered for Max. HAP Vapor Pressure of off-sirial:	.te	
	1 2 Control Requirements:	VEG	NO.
a)	Is the FR and closure devices designed to form a continuous barrier over the entire surface area of the liquid in the tank?	YES	NO
b)	Does each opening in the fixed roof have a closure device?	YES	NO
c)	Is the integrity of the fixed roof and		YES NO
d)	closure device components maintained? Is the fixed roof installed with each		YES NO
,	closure device secured in the closed position?		
e)	Is the vapor head-space, underneath the fixed roof, vented through a CVS to the control device continuously?	YES	NO
f)	Is the O/O using the following inspection metho comply with 40 CFR 63.685(g)(3)?	ds to	

<u>REPORTING/RECORD-KEEPING REQUIREMENTS</u>.

WORKSHEET D

Pressure Tank [40 CFR 63.685(d)(4)]

	ral Information:	
Total	l Number of These Tanks:	
Tank	Number(s):	
Off-	site Material Handled by Tank(s):	
OII-;	site material handled by rank(s).	
Inst	allation Date(s):	
Size	of Tank(s) [m ³]:	
Max.	Vapor Pressure of off-site material [kP]:	
N/	MAD Marian Durantura of afficient material [InD].	
Max.	HAP Vapor Pressure of off-site material [kP]:	
	considered for Max. HAP Vapor Pressure of off-site	
mate	rial:	
Leve	l 2 Control Requirements:	
a)	Is the tank designed so it does not vent to	YES NO
	the atmosphere in response to the compression	
	of the vapor head-space in the tank during	
b)	filling of the tank to its design capacity? Is each tank opening equipped with closure	YES
D)	is each tank opening equipped with closure	NO
	devices designed to operate at no detectable	
_	organic emissions?	
c)	Is the O/O using the following inspection methods to comply with 40 CFR 63 685(h)(2)?	

REPORTING/RECORD-KEEPING REQUIREMENTS.

WORKSHEET E

Enclosure Vented Through a CVS to a Combustion Device $[40 \ CFR \ 63.685(d)(5)]$

Gener	ral Information:	
Tota	l Number of These Tanks:	
Tank	Number(s):	
Off-s	site Material Handled by Tank(s):	
_ Insta	allation Date(s):	
Size	of Tank(s) [m³]:	
Max.	Vapor Pressure of off-site material [kP]:	
Max.	HAP Vapor Pressure of off-site material [kP]:	
HAP o	considered for Max. HAP Vapor Pressure of off-site rial:	
Combi	ustion Device Used:	
Level	l 2 Control Requirements:	
a)	Is the enclosure designed and operated as YES	NO
	a permanent total enclosure [40 CFR §52.741]?	
	1) Does the enclosure have permanent or YES temporary openings?	NO
	2) Has the O/O performed the verification	YES NO
	procedure for the enclosure?	
b)	Is the $0/0$ using the following inspection methods to comply with 40 CFR $63.685(i)(2)$?	

REPORTING/RECORD-KEEPING REQUIREMENTS.

WORKSHEET F

Separators with a Floating Roof [40 CFR 63.686(b)(1)]

<u>Gene</u>	ral I	nformation:		
Tota	l Num	ber of These Separators:		
Sepa	rator	Number(s):		
Off-	site	Material Handled by Separator(s):		
Inst	allat	ion Date(s):		
Max.	thro	ughput for separator [m³/hr]:		
Hour	s of	operation for separator(s) [hr/yr]:		
<u>Stan</u> (a)	Is t	-Separator floating roof [40 CFR 63.1043]: he floating roof designed to meet the followifications?	wing	
	1)	Float on the liquid surface during normal operation?	YES	NO
	2)	Equipped with two continuous seals one above the other?	YES	NO
	3)	Is the primary seal (the lower seal) A) A liquid mounted seal?	YES	NO
	4)	B) A metallic shoe seal? Each opening has a closure device	YES	NO YES NO
		designed to have no visible cracks, holes, gaps or other open spaces exists?		NO
	5)	Each closure device(s) is secured		YES NO
		whenever regulated-material is in the separator?		
b)		the floating roof have any emergency drains?	YES	NO
	1)	Does one or more of the emergency		YES NO
		roof drains have a slotted membrane fabric cover which covers 90 percent of the opening?		
	2)	Does one or more of the emergency		YES

NO

roof drain have a flexible fabric
sleeve seal?

- c) Is the O/O using the following inspection methods to comply with 40 CFR 63.1043(d)?
 - 1) WE NEED THE INSPECTION REQUIREMENTS, SEE 63.1047(b).

WORKSHEET G

Fixed-roof separators vented through a CVS to a control device $\underline{[40\ CFR\ 63.686(b)(2)]}$

		nformation:		
Tota	.l Num	ber of These Separators:		
Sepa	rator.	Number(s):		
Off-	site	Material Handled by Separator(s):		
Inst	allat	ion Date(s):		
Max.	thro	ughput for separator [m³/hr]:		
Hour	s of	operation for separator(s) [hr/yr]:		
Stan		-Separator vented to control device [40 CFR		
a)		he fixed roof and closed-vent system design	ed to	meet
	the 1)	following specifications? Forms a continuous barrier over the	YES	NO
	Τ /	entire surface area of the liquid	1115	NO
	2)	in the separator? Each opening is vented to a control device or equipped with a closure device that has no visible cracks,	YES	NO
	3)	holes, gaps or other open spaces? Each closure device(s) is secured		YES
		whenever regulated-material is in		NO
b)		the separator? the floating roof have any emergency drains?	YES	ио
		Does one or more of the emergency		YES NO
		roof drains have a slotted membrane fabric cover which covers 90 percent of the opening?		
	2)	Does one or more of the emergency		YES NO
c)	Tα +	roof drain have a flexible fabric sleeve seal? he 0/0 using the following inspection metho	da +o	
C)		ly with 40 CFR $63.1044(d)$?		

1) WE NEED THE INSPECTION REQUIREMENTS, SEE 63.1047(c).

WORKSHEET H

Pressurized Separator Operated as a Closed System [40 CFR 63.686(b)(3)]

		<u>nformation</u> : ber of These Separators:	
		Number(s):	
Sepai	lacoi	Number (s).	
Off-s	site	Material Handled by Separator(s):	
Insta	allat	ion Date(s):	
Max.	thro	ughput for separator [m³/hr]:	
Hours	s of	operation for separator(s) [hr/yr]:	
Stand		-Pressurized Separator [40 CFR 63.1045]:	
a)		he Pressurized Separator designed to meet the	
	1)	owing specifications? To not to vent to the atmosphere as a	YES
	Ι)	10 not to vent to the atmosphere as a	NO
		result of compression of the vapor headspace	
		during operation of the separator at its	
	2)	design capacity?	NO
	۷)	All separator openings are equipped with YES closure devices that operate with no	NO
		detectable organic emissions as determined	
		using the procedure specified in Sec. 63.1046(a)	
b)		regulated-material is in the separator is the	
		rator operated as a closed system that does not	
	to ti	he atmosphere ?	YES
\	T:Tle	NO	
c)		purging of inerts from the separator is the purgamerouted to a closed-vent system and control dev	
	2010		NO

WORKSHEET I

Surface Impoundments with Floating Membrane Covers $[40 \ CFR \ 63.687(b)(1)]$

			<u>mation</u> : of These Impoundments:		
			-		
Impo	undme	nt N	umber(s):		
Off-	site	Mate	rial Handled by Impoundment(s):		
Inst	allat	ion I	Date(s):		
Moss	+ h r o	ahnı			
Max.	CIIIO	ugnp	ut for Impoundment [m³/hr]:		
Hour	s of	opera	ation for Impoundment(s) [hr/yr]:		
Stan			face Impoundment with Floating Membran floating membrane cover meet the follo		
a)		ireme	_	JWIIIG	
	1)		gned to float on the liquid	YES	NO
		surf	ace and form a continuous		
			rier over the entire liquid		
		suri	ace?		
	2)		ricated from one of the following synth	netic	
			prane materials?		
		A)	A high density polyethylene		YES NO
			(HDPE) with a thickness no		110
			less than 2.5 mm		
		в)	Another material determined to	YES	NO
			have properties equivalent to HDPE?		
			If yes, what material?		
				_	
	3)	Inst	alled with no visible cracks,		YES NO
		hole	es, gaps, or other open spaces?		110
	4)	Is e	each opening in the floating	YES	NO
	= /		prane cover equipped with a	- 	
			sure device with no visible		

cracks, holes, gaps or other open spaces?

5) Is the floating membrane cover equipped with one or more emergency cover drains for removal of storm water?

¹⁰Each emergency cover drain must be equipped with a slotted membrane fabric cover that covers at least 90% of the area of the opening or a flexible fabric sleeve seal

- 6) Are the closure devices made of YES NO suitable materials which minimizes exposure of the regulated material to the atmosphere?
- b) Is the O/O using the following inspection methods to comply with 40 CFR 63.946(a)?
 - 1) Visually inspecting following YES NO installation and at least once every year after?
 - 2) If a defect was detected, did the owner or operator repair the defect as follows:
 - A) First attempt at repair no YES NO later than 5 calendar days after detection?
 - B) Completed repair as soon as

 YES

 NO

 possible but no later than
 - 45 calendar days after detection?
 - C) Request¹¹ a delay of repair **YES NO** beyond 45 calendar days?

¹¹In this case, the owner or operator shall repair the defect at the next time the process or unit that is generating the regulated-material managed in the surface impoundment stops operation. Repair of the defect shall be completed before the process or unit resumes operation.

WORKSHEET J

Surface Impoundments with Fixed Roof and Closed-Vent System $\underline{[40\ CFR\ 63.687(b)(2)]}$

		nformation: ber of These Impoundments:		
		nt Number(s):		
_		Material Handled by Impoundment(s):		
Insta	allat	ion Date(s):		
Max.	thro	ughput for Impoundment [m³/hr]:		
Hours	sof	operation for Impoundment(s) [hr/yr]:		
<u>Stanc</u> a)	Does [40 (-Surface Impoundments with FR and CVS: the FR and CVS meet the following requirements CFR 63.943] Designed to form a continuous barrier over the entire liquid surface?	ents? YES	NO
	2)	Is each opening equipped with a closure device with no visible cracks, holes, gaps or other open spaces?	YES	NO
	3)	Made of suitable materials which will minimize emissions to the atmosphere?		YES NO
	4)	Designed and operated in accordance with 40 CFR 63.693, Subpart DD?	YES	NO
b)		he O/O using the following inspection method ly with 40 CFR 63.946(a)? Visually inspecting following installation and at least once every year after?	ds to	NO

If a defect was detected, did the owner or operator

2)

repa	ir the defect as follows:		
A)	First attempt at repair no	YES	NO
	later than 5 calendar days		
	after detection?		
B)	Completed repair as soon as		YES
			NO
	possible but no later than		
	45 calendar days after detection?		
C)	Request a delay of repair beyond		YES
			NO
	45 calendar days?		

WORKSHEET K

Level 1 Controls for Containers

[40 CFR 63.688(b)(1-2)]

		<u>information</u> : lber of Level 1 Containers:	
COIIC	arner	Number(s):	
Off-	site	Material Handled by Container:	
Inst	allat	ion Date(s):	
Desi	gn Ca	pacity of Container(s)[m³]:	
Max.	Vapo	r Pressure of material in the Container:	
Tota	l Con	centration of Organic in the Container:	
		; Container Level 1 [40 CFR 63.922]:	
a)		h of the following methods of control is the O/O	
		g to comply with 40 CFR 63.922(b)?	
	Ι)	A container that meets applicable	YES NO
		DOT regulations on packaging hazardous	
		materials for transportation?	
	2)	A cover and closure devices which	YES
			NO
		form a continuous barrier over the	
		container opening?	
	3)	An open-top container with a	YES NO
		vapor-suppressing barrier?	
b)	Does	each cover and closure device meet the following	g
	spec	ifications?	
	1)	No visible holes, gaps, or other	YES
			NO
		open spaces into the interior of	
		the container when closed?	
	2)	Operated and maintained in a	YES NO
		closed position when holding	
		off-site material?	
c)	Is t	he 0/0 using the following inspection methods to	

comply with 40 CFR 63.926.

1) When a regulated material is

YES NO

received in a level 1 container, has the O/O visually inspected the container(s), cover(s) and closure devices while the devices are in a secured and closed position within 24 hours?

2) Has the O/O inspected containers

YES

NO

used for managing regulated materials and remaining at the facility for a period of one-year or more at least once every 12 months?

3)		a defect is detected, has the O/O Made the first efforts at repair	YES NO
		of the defect no later than 24 hours after detection?	
	ii)	Has the O/O repaired the defects	YES NO
		as soon as possible but no later than 5 calendar days after detection?	
	iii)	If a defect cannot be repaired	YES NO
		within the 5 calendar days, has the O/O removed the regulated material from the container?	

WORKSHEET L

Level 2 Controls for Containers [40 CFR 63.687(b)(3)]

		Information: aber of Level 2 Containers:	
Cont	ainer	Number(s):	
Off-	site	Material Handled by Container:	
Inst	allat	ion Date(s):	
		pacity of Container(s)[m³]:	
DCSI	911 00	pacity of container(s)(m).	
Max.	Vapo	or Pressure of material in the Container:	
Tota	l Con	centration of Organic in the Container:	
Stan	dards	: Container Level 2 [40 CFR 63.923]:	
a)	Whic	h of the following methods of control is the O/O g to comply with 40 CFR 63.923(b)?	
		A container that meets applicable DOT	YES
		regulations on packaging hazardous	NO
		materials for transportation?	
	2)	A container that has been demonstrated	YES NO
		to operate at no detectable emissions using Method 21?	
	3)	A container that has been demonstrated	YES
		to be vapor tight using Method 21?	NO
b)	Is e	ach closure device maintained in a	YES
	clos	ed position, at all times when	NO
		site material is contained within container?	
c)		he $0/0$ using the following inspection methods to ly with 40 CFR 63.926 .	
	1)	When a regulated material is	YES

NO

received in a level 2 container, has the O/O visually inspected the container(s), cover(s) and closure devices while the devices are in a secured and closed position within 24 hours?

2) Has the O/O inspected containers YES NO

used for managing regulated materials and remaining at the facility for a period of one-year or more at least once every 12 months?

3)		a defect is detected, has the O/O Made the first efforts at repair	YES NO
		of the defect no later than 24 hours after detection?	2.0
	ii)	Has the O/O repaired the defects	YES NO
		as soon as possible but no later than 5 calendar days after detection?	
	iii)	If a defect cannot be repaired	YES NO
		within the 5 calendar days, has the O/O removed the regulated material from the container?	

WORKSHEET M

Level 3 Controls for Containers
[40 CFR 63.687(b)(4)]

General Information:

Tota	al Number of Level 3 Containers:		
Cont	cainer Number(s):		
Off-	-site Material Handled by Container:		
Inst	callation Date(s):		
Desi	Ign Capacity of Container(s)[m³]:		
Max.	. Vapor Pressure of material in the Container: _		
Tota	al Concentration of Organic in the Container: _		
<u>Star</u> a)	ndards; Container Level 3 [40 CFR 63.923]: Which of the following methods of control is the	ne 0/0	1
	<pre>using to comply with 40 CFR 63.924(b)? 1) A container vented directly through a closed-vent system to a control device?</pre>	YES	NO
	2) A container inside an enclosure which is exhausted through a closed-vent system to a control device?	YES	NO
b)	<pre>Has the enclosure: 1) Been designed and operated in accordance with the criteria for a permanent total enclosure (See 40 CFR 52.741)?</pre>	YES	NO
	2) Had a verification procedure performed by O/O (Procedure T) initially and		YES NO
	annually thereafter?		
c)	Is the closed-vent system and control device		YES NO
	designed and operated in accordance with the requirements of 40 CFR 63.692?		
۵)	Is the O/O inspecting the CVS and control	YES	NΟ

device(s) in accordance with 40 CFR § 63.693.

WORKSHEET N Individual Drain Systems

[40 CFR 63.689(b)]

		<u>niormation</u> ber of Ind	<u>n</u> : dividual Drain Systems (IDS): <u> </u>		
	Numbe				
בטט	Nullibe	<u> </u>			
Off-	-site	Material B	Handled by IDS:		
Inst	callat	ion Date(s	s):		
Max.	. thro	ughput for	r IDS [m³/hr]:		
Hour	s of	operation	for IDS [hr/yr]:		
Star	<u>ıdards</u>	- Individ	dual Drain Systems [40 CFR 63.960]	<u>:</u>	
a)			Following is the $0/0$ using to cont	rol a	ir
		sions?			
	1)		vater seals, and other	YES	NO
		-	l air emission control		
	0.		[40 CFR 63.962(b)]?		
		Hard pipi	_	YES	NO
	3)	A CVS and	d control device(s)	YES	NO
b)	When	covers, w	water seals and other specified ai	r emi	ssion
			ment is used to control IDS, is th		
	meet	ing the fo	ollowing requirements? [40 CFR 63	.692(b)]
	1)	Is the ID	S designed to segregate the	YES	NO
		_	astewater organic vapors from		
			IDS that is not subject to		
	٥.	these sta			
	2)		drain equipped with a water	YES	NO
			closure device?		
			each water seal Does the outlet to the	VEC	NO
		A)		YES	NO
			discharge pipe extend below the liquid surface		
			in the water seal?		
		B)	Is a flexible shield or		YES
		_ ,			NO
			other device installed		
			which restricts wind motion		

across the open space between the outlet of the discharge pipe and the drain?

ii) Is each closure device designed to operate, when closed, so there are no visible cracks, holes, gaps, or other open spaces in the device, or between the perimeter of the drain opening and the closure device?

YES NO

3)	Is each junction box equipped with	YES	NO
	a closure device, CVS or vented to		
	the atmosphere?		

- i) Is each closure device designed YES NO to operate, when closed, so there are no visible cracks, holes, gaps, or other open spaces in the device, or between the perimeter of the Junction box opening and the closure device?
- If vented through a CVS, is the ii) YES NO CVS installed and operating in accordance with 40 CFR §63.693 ?
- iii) If vented directly to the atmosphere, is the O/O meeting the following requirements?
 - Is the junction box filled A) and emptied by gravity flow (i.e., no pump) or operated with no more than slight changes in the liquid level?
 - B) Is the vent pipe at least YES NO 90 cm long and no more than 10.2 cm in diameter?
 - Are water seals installed at C) YES NO

the liquid entrance(s) to or exit from the junction box?

If yes, is this proven by observation or smoke test?

5) Is the O/O operating IDS air emission control devices as follow?

- i) Maintaining each closure device YES NO in a closed position whenever wastewater is in the IDS?
- Maintaining the liquid level in ii) YES NO each water seal, used to control

⁴⁾ Is each sewer line covered or closed YES NO to the atmosphere so there are no visible cracks, holes, gaps, or other open spaces in the sewer line joints, seals, or other emission interfaces?

drains, at an appropriate level?
A) Is the liquid level maintained YES NO
 by using a flow monitoring device?

NO

- B) Is the liquid level maintained YES NO by continuously supplying water?
- C) Is the liquid level maintained YES NO by conducting regular visual inspections (and adjusting levels when found to be below appropriate levels)?
- c) When a CVS and control device(s) is used to control each IDS, is the O/O meeting the following requirements? [40 CFR 63.692(a)(3)(i-ii)]
 - 1) Maintaining the vapor head-space YES
 NO

pressure below atmospheric pressure when the control device is operating?

- 2) Operating each CVS and the associated YES NO control device in accordance with 40 CFR §63.693?
- d) Is the O/O meeting the following inspection requirements? [40 CFR 63.964]
 - 1) Visually inspecting the IDS to check YES NO for defects which could result in air emissions?
 - 2) Inspecting each drain as follows?
 - i) Verifying that the appropriate YES NO liquid levels are maintained?
 - ii) Checking for other defects? YES NO
 iii) Verifying each closure device YES

is in place, and has no defects?

- 3) Visually inspecting each junction box YES NO to verify each closure device is in
- place, and there are no defects?

 4) Visually inspecting the unburied YES NO portion of each sewer line to verify all closure devices are in place and there are no defects?
- 5) Performed an inspection of the water seals and closure devices initially and thereafter, once per year?
- 6) Inspected and monitored the CVS YES NO and associated control device(s) in accordance with 40 CFR §63.693?

7) Maintained inspection records in accordance with §63.965?

YES NO

e) Has the O/O repaired all detected defects as follows?

1) Made first attempt repairs no later YES NO than five calendar days after the defect was detected?

2) Completed repair no later than 15 days

YES

NO

after the defect was detected?

3) Completed a delayed repair before YES NO

the process or unit resumed operation? [40 CFR §63.964(b)(2)]

4) Maintained a record of each defect YES NO repair in accordance with 40 CFR §63.965?

WORKSHEET O

40 CFR Part 61, Subpart V

Standards: General [40 CFR 61.242-1]

a)	How is the owner or operator of each new or existi source complying with 40 CFR Part 61 , Subpart V^{12} ?	ng
	1) Complying with 40 CFR 61.242-1 to 11?	s no
	2) Using an alternative method approved YE	s no
	by the Administrator ¹³ ?	
	3) Maintaining the equipment in vacuum YE	s no
	service?	
b)	Is each piece of equipment subject to this	YES
		NO
	regulation marked so it is distinguishable	

from other pieces of equipment?

- *In General*: For each piece of equipment identified as C) leaking:
 - Was the first attempt at repair made NO YES within 5 calendar days after being detected?
 - Was the leak repaired within 15 calendar 2) NO days after being detected?

Standards: Pumps [40 CFR 61.242-2]

Is each pump: a)

- Monitored monthly to detect leaks¹⁴ 1) YES NO using Method 21?
- 2) Visually inspected weekly to YES NO

detect leaks?

- Is the O/O claiming any of the following conditional b) exemptions for pumps?
 - Pumps equipped with a dual mechanical YES NO

seal system that includes a barrier fluid system [40 CFR 61.242-2(d)]?

Pumps designed to operate at no 2) YES NO detectable emissions [40 CFR 61.242-2(e)]?

¹²Compliance with this subpart should be determined through review of records, performance test results and by conducting inspections

¹³The alternative method option is only provided for 61.242-2, -3, -5, -6, -7, -8, -9 or -11

¹⁴A pump is considered leaking if an instrument reading is 10,000 ppm or greater.

Pumps equipped with "a closed vent system vented to a control device" [40 CFR 61.242-2(f)]? YES NO

YES NO

	4)	Pumps located within the boundary		YES NO
		of an unmanned plant site [40 CFR 61.242-2(g)]?		
Stan	dards	s: Compressors [40 CFR 61.242-3]		
a)		each compressor equipped with a seal	YES	NO
	syst	em that includes a barrier fluid system?		
b)		the compressor seal system:		
	1)	Operated with the barrier fluid 15	YES	NO
		at a pressure greater?		
	2.)	than the compressor stuffing box pressure?	VEC.	NO
	2)	Equipped with a barrier fluid system that is connected by a closed-vent	YES	NO
		system to a control device?		
	3)	Equipped with a system that purges the		YES
	- ,	Timelia na mana mana mana mana mana mana mana		NO
		barrier fluid into a process stream		
		with zero VHAP emissions?		
c)	Is t	the barrier fluid system equipped with a		YES
				NO
		sor that will detect failure of the seal		
	syst 1)	em, barrier fluid system, or both? Is each sensor for the barrier fluid	YES	NO
	Ι)	checked daily or equipped with an	IES	NO
		audible alarm?		
	2)	Has the owner or operator determined	YES	NO
		criteria used to indicate failure of		
		the seal system, the barrier fluid		
		system or both?		
d)		the 0/0 claiming any of the following condit	ional	
		mptions for compressors?		
	1)	Compressors equipped with a CVS and control device [40 CFR 61.242-3(h)]?	YES	NO
	2)	Compressors designed to operate at no		YES
	۷,	complessors designed to operate at no		NO
		detectable emissions [40 CFR 61.242-3(i)]		•
G+an	dardo	s: Pressure relief devices in gas/vapor serv	ice	40
		s: Pressure rellet devices in gas/vapor serv 12-4]	10 6 [<u> </u>
<u> </u>	<u> </u>	<u> </u>		

Except during pressure releases, is each

 $^{^{15}}$ The barrier fluid shall not be in VHAP service and , if the compressor is covered by standards under 40 CFR Part 60, shall not be in VOC service

pressure relief device in gas/vapor service operated with no detectable emissions?

b) Has a pressure release occurred?

YES NO

с)	After each pressure release: 1) Was the pressure relief device returned		YES NO
	to a condition of no detectable emissions within five calendar days after the pressurelease?	re	NO
	2) Was the pressure relief device monitored within 5 calendar days after the pressure release to confirm the condition of no detectable emissions using Method 21?	YES	NO
d)	Is the O/O claiming an exemption for any pressure relief device because it is equipped with a closed-vent system and control device [40 CFR 61.242-4(c)]?	YES	NO
Stan	dards: Sampling connecting systems [40 CFR 61.24	2-5]	
a)	Is each sampling connection system equipped		YES NO
	with a closed-purge system or a closed-vent		
b)	<pre>system? For each closed-purge system or a closed-vent s</pre>	vstem	ı:
,	1) Does the system return the purged	7	YES NO
	process fluid directly to the process		
	line with zero VHAP emissions?		
	2) Does the system collect and recycle the purged process fluid with zero VHAP emissions?	YES	NO
	3) Is the system designed and operated	YES	NO
	to capture and transport all the purged process fluid to a control device?		
c)	Is the O/O claiming an exemption for any	YES	NO
- ,	sampling connection system because it is		
	an in-situ (non-extractive or in-line)		
	sampling system [40 CFR 61.242-5(c)]?		
Stan	dards: Open-ended valves or lines [40 CFR 61.242	2-6]	
a)	Is each open-ended valve or line equipped	YES	NO
	with a cap, blind flange, plug, or a		
b)	second valve? Is the system a double block and bleed system?	YES	NO
Stan	dards: Valves or lines [40 CFR 61.242-7]		
a)	Is each valve monitored monthly to detect	YES	NO

leaks16 using Method 21?

 $^{^{16}\}mathrm{A}$ valve is considered leaking if an instrument reading of 10,000 ppm or greater is measured

b)	Has any valve been free from leaks for	YES NO
c)	two successive months of monitoring 17 18? If a leak was detected:	
	1) Was the first attempt at repair YES made within 5 calendar days after being detected?	NO
	2) Was the leak repaired within 15 YES calendar days after being detected?	NO
e)	Is the O/O claiming any of the following conditional exemptions/special monitoring for valves designated?	
	1) To operate at no detectable emissions	YES NO
	[40 CFR 61.242-7(f)]?	
	2) Unsafe-to-monitor[40 CFR 61.242-7(g)]?	YES NO
	3) Difficult to monitor[40 CFR 61.242-7(h)]? YES	NO
	dards: Pressure relief device in liquid service and ges and other connectors; [40 CFR 61.242-8]	
a)	Is each pressure relief device in liquid YES service, flange or other connector monitored within five-days, using Method 21, if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method?	NO
b)	Were any of the monitoring instrument readings YES [from (a)] 10,000 ppm or greater?	NO
<u>Stan</u>	dards: Product accumulator vessels [40 CFR 61.242-9]	
a)	Is each product accumulator vessel	YES NO
	equipped with a closed-vent system capable of capturing and transporting any leakage from the vessel to a control device?	
b)	Is the closed-vent system and control	YES NO
	device complying with 40 CFR 61.242-11?	

¹⁷If a valve has been leak free for 2 successive months of monitoring, these valves may be monitored during the first month of every quarter (i.e. quarterly)

¹⁸After initiating quarterly monitoring of valves (as provided for in the rule), if a leak is detected by monitoring during the first month of any quarter, the O/O must return to monthly monitoring [until 2 successive months of monitoring show no leak]

Standards: Delay of repair [40 CFR 61.242-10]

- Has a delay of repair been requested for YES NO a) any piece of equipment (besides valves or pumps) found to be leaking?
- Has a delay of repair been requested for b)

	valves $[40 \text{ CFR } 61.242-10(c)]^{19}$?	YES	NO
c)	Has a delay of repair been requested for	YES	NO
	pumps [40 CFR 61.242-10(d)]?		

<u>Standards: Closed-vent system and control device</u> [40 CFR 61.242-11]

	1) 7/2222 20000	arra + am 1				3777.0	BTO.
	control organic en	missions?					
a)	Which closed-vent	system and	control	device	is	used	to

1)	Vapor recovery system?	YES	NO
2)	Enclosed combustion device?	YES	NO
3)	Flare?	YES	NO

- b) If a vapor recovery system is used, is it YES NO designed and operated to reduce organic vapors with an efficiency of \$95 percent?
- c) If an enclosed combustion device is used, is it:
 - 1) Designed and operated to reduce the VHAP emissions with an efficiency of \$95 percent?
 - 2) Designed and operated to provide a YES NO minimum residence time of 0.5 seconds at a minimum temperature of 760°C?
- d) If a flare is used, is it complying with YES NO 40 CFR 60.18 (b-f)?

<u>Standards: Alternative Standards for valves in VHAP service or emission limitations [40 CFR 61.243-1, -2 or 40 CFR 61.244]</u>

- a) Is the O/O using either of the following alternative monitoring scenarios for valves?
 - 1) Less than or equal to two percent of the valves for a process unit leaking²⁰?
 - 2) Consecutive monitoring and percentage YES NO

leaking²¹?

b) Is the facility using an alternative method YES

¹⁹A delay of repair beyond a process unit shut-down will be allowed for a valve under certain conditions [see 40 CFR 61.242-10(e)].

²⁰This option requires that no more than two percent of the valves at any process unit subject to or using this method of compliance be leaking at any time.

²¹This option requires two or five consecutive quarterly monitoring periods (in accordance with 40 CFR 61.242-7) which show less than two percent of the valves are leaking prior to allowing semi-annual or annual monitoring, respectively. If, at any time, more than two percent of the valves are leaking, the O/O must return to monitoring as required by 40 CFR 61.242-7. This option may be re-selected.

NO

for emission limitations?

Has the O/O notified the Administrator that c)

YES NO

it has chosen to use one of the above alternative standards?

WORKSHEET P

40 CFR Part 63, Subpart H

Standards: General [40 CFR 63.162]

a)	How is the owner or operator of each new and existing source complying with 40 CFR Part 63, Subpart H ²² ?	ſ
	, 1 1 3	YES NO
	, 3	YES NO
	the Administrator ²³ ?	
	3) Maintaining the equipment in vacuum YES : service?	NO
	, 1 3 3 1 1	YES NO
	HAP service for less than 300 hours per calendar year?	
b)	:	YES NO
	part marked so it is distinguishable from other pieces of equipment?	
c)	:	YES NO
	leaking, is there a weatherproof and readily	
	visible identification with the equipment	
	identification number attached to the equipment 24 25?	
d)	<u>In General</u> : For each piece of equipment identified a	ıs
,	leaking:	
	1) Was the first attempt at repair made YES :	NO
	within 5 calendar days after being	
	detected?	
	, <u>±</u>	NO
	calendar days after being detected?	

²²Compliance with this subpart should be determined through review of records, performance test results and by conducting inspections

²³The alternative method option is only provided for 63.163-170 and 63.172-174

²⁴Identification may be removed from each piece of equipment, except for valves, after repair is made.

 $^{^{25}}$ Identification may be removed from each valve after the follow-up monitoring shows the valve is operating at no detectable emissions.

Standards: Pumps in light-liquid service [40 CFR 63.163]

- a) Which phase is the facility in for pump monitoring or leak detection?
 - 1) Phase I^{26} ?

YES NO

 $^{^{26}\}mbox{Phase I}$ leak detection has a leak threshold of 10,000 ppm or greater.

,	_	,	_
	1		1

b)	2) 3)	Phase II ²⁷ ? Phase III ²⁸ ? ach pump:	YES YES	NO NO
D)	1)	Monitored monthly to detect leaks		YES NO
	2)	using Method 21? Visually inspected weekly to detect leaks?	YES	ио
c)	leak	the O/O selected to calculate percent ing pumps on a <i>process unit basis</i> or source-wide basis?	YES	NO
d)		the O/O been required to implement a ity Improvement Program ²⁹ (QIP)?	YES	NO
e)		he O/O claiming any of the following condita ptions for pumps?	ional	
	1)	Equipped with a dual mechanical seal system that includes a barrier fluid system [40 CFR 63.163(e)]?	YES	NO
	2)	Designed to operate at no detectable emissions [40 CFR 63.163(f)]?	YES	МО
	3)	Equipped with "a closed vent system vented to a control device [40 CFR 63.163(g)]?	YES	NO
	4)	Located within the boundary of an		YES NO
	5)	unmanned plant site [40 CFR 63.163(h)]? Designated unsafe-to-monitor		YES NO
		[40 CFR 63.163(j)]?		
Stand a)		: Compressors [40 CFR 63.164] ach compressor equipped with a seal		YES NO

²⁷Phase II leak detection has a leak threshold of 5,000 ppm or greater.

Is the compressor seal system:

b)

system that includes a barrier fluid system?

²⁸Phase III leak detection has a leak threshold of: (1) 5,000 ppm for pumps handling polymerizing monomers; (2) 2,000 ppm for pumps in food/medical service only; (3) 1,000 ppm or greater for all other pumps

²⁹A QIP is required if either 10 percent of the pumps in a process unit or three pumps in a process unit were found leaking on a six-month rolling average.

1) Operated with the barrier fluid³⁰ at a **YES NO** pressure greater than the compressor stuffing box pressure?

 $^{^{30}}$ The barrier fluid shall not be in VHAP service and , if the compressor is covered by standards under 40 CFR Part 60, shall not be in VOC service.

	2)	Equipped with a barrier fluid system that is connected by a closed-vent	YES	NO
	3)	system to a control device that complies with 40 CFR 63.172? Equipped with a system that purges the		YES
	ŕ	barrier fluid into a process stream with		NO
c)	Is t	zero VHAP emissions to atmosphere? he barrier fluid system equipped with a		YES NO
	syste	or that will detect failure of the seal em, barrier fluid system, or both?		
	1)	Is each sensor for the barrier fluid checked daily or equipped with an audible alarm?	YES	NO
	2)	Has the owner or operator determined criteria used to indicate failure of the seal system, the barrier fluid system or both?	YES	NO
d)		he O/O claiming any of the following conditions for compressors?	ional	
	1)	Compressors equipped with a CVS and control device [40 CFR 63.164(h)]?	YES	NO
	2)	Compressors designed to operate at no		YES NO
	_	detectable emissions [40 CFR 63.164(i)]?		
		<pre>: Pressure relief devices in gas/vapor serv: 3.165]</pre>	<u>ice</u>	
a)		pt during pressure releases, is each	YES	NO
,	pres	sure relief device in gas/vapor service		
	_	ated with no detectable emissions?		
b)		a pressure release occurred?	YES	NO
c)	Arte:	r each pressure release: Was the pressure relief device returned	YES	NO
	Τ /	to a condition of no detectable emissions	165	NO
		within five calendar days after the pressur release?	re	
	2)	Was the pressure relief device monitored within five calendar days after the pressur release to confirm the condition of no detectable emissions using Method 21?	YES Te	NO
d)		he 0/0 claiming any of the following conditions?	ional	
	1)	Pressure relief device equipped with	YES	NO

a closed-vent system and control device
[40 CFR 63.165(c)]?

2) Pressure relief device equipped with a

YES NO

rupture disk upstream of the pressure
relief device [40 CFR 63.165(d)]?

Stan	dards: Sampling connecting systems [40 CFR 63.166]	
a)	Is each sampling connection system equipped	YES NO
	with a closed-purge, closed-loop or a closed-vent system?	
b)	For each closed-purge, closed loop or closed-vent system 1) Does the system return the purged	tem: YES NO
	process fluid directly to the process line with zero VHAP emissions?	
	2) Does the system collect and recycle YES 1 the purged process fluid with zero VHAP emissions?	NO
	3) Is the system designed and operated to	YES NO
	capture and transport all the purged process fluid to a control device?	
	4) Does the system collect, store and transport the purged process fluid to one of the following syst or facilities?	
	A) A waste management unit which	YES NO
	is subject to and operating in compliance with Subpart G of 40 CFR Part 63?	
	B) A TSDF facility subject to YES Note to YES Note The regulation under 40 CFR	NO
	o,	YES NO
	registered by a State to manage municipal or industrial solid waste?	
c)	Is the O/O claiming an exemption for any sampling connection system because it is an in-situ (non-extractive or in-line) sampling systems [40 CFR 63.166(c)]?	NO
Stan	dards: Open-ended valves or lines [40 CFR 63.167]	
a)	Is each open-ended valve or line equipped YES Now with a cap, blind flange, plug, or a second valve?	NO
b)	Is the system a double block and bleed	YES NO
	system?	

Is the O/O claiming any of the following conditional

c)

exemptions?

1) Open-ended valves or lines in an emergency shut-down system designed to automatically open during a process upset [40 CFR 63.167(d)]?

2) Open-ended valves or lines containing YES NO

materials which would polymerize or would present an explosion, serious

over-pressure or another safety hazard
if capped, etc. [40 CFR 63.167(e)]?

Standards: Valves in gas/vapor or light liquid service [40 CFR 63.168]

a)	Which phase is the facility in for valve monito leak detection?	ring	and
	1) Phase I ³¹ ?	YES	NO
	2) Phase II ³² ?	YES	NO
	3) Phase III ³³ ?	YES	NO
b)	Is each valve in phase I or II monitored	YES	NO
	quarterly using Method 21?		
c)	Is each valve in phase III monitored according following schedule?	to th	.e
	1) Once per month at process units with	YES	NO
	two percent or greater valves leaking?		
	2) Quarterly after implementing a QIP?	YES	NO
	3) Quarterly at process units with less	YES	NO
	than two percent of the valves leaking?		
	4) Once every two quarters at process units	YES	NO
	with less than one percent of the valves		
	leaking?		
	5) Once every four quarters at process units	YES	NO
	with less than 0.5 percent of the valves		
	leaking?		
d)	If a leak was detected, was the leaking valve	YES	NO
	monitored within the first three months after		
,	it was repaired using Method 21?	. ,	
e)	Is the O/O claiming any of the following condit	ional	
	exemptions/special monitoring for valves?		VE C
	1) Designated unsafe-to-monitor		YES NO
	[40 CFR 63.168(h)]?		NO
	2) Designated difficult to monitor	YES	NO
	[40 CFR 63.168(i)]?	165	NO
	3) < 250 valves in organic HAP service	YES	NO
	[40 CFR 63.168(j)]?	1110	140
	[10 011 03.100()/].		

 $^{^{31}}$ Phase I leak detection for valves has a leak threshold of 10,000 ppm or greater.

³²Phase II leak detection for valves has a leak threshold of 500 ppm or greater.

³³Phase III leak detection for valves has a leak threshold of 500 ppm or greater.

Standards: Pumps, valves, connectors and agitators in heavy liquid service; instrumentation systems a pressure relief devices in liquid services [40 CFR 63.169]

a)	Is the listed equipment monitored within five-days, using Method 21, if evidence of a potential leak is found by visual,	YES	NO
	audible, olfactory, or any other detection method?		
b)	Were any of the monitoring instrument	YES	NO

b) Were any of the monitoring instrument readings 10,000/5,000/2,000/500³⁴ ppm or greater?

<u>Standards: Surge control vessels and bottoms receivers [40 CFR 63.170]</u>

a)	Is the surge vessel or bottoms receiver	YES	ИО
	routed back to the process?		
b)	Is the surge vessel or bottoms receiver	YES	NO
	equipped with "a closed-vent system and		
	control device?		
c)	Is the surge vessel or bottoms receiver	YES	NO
	equipped with a floating roof (external		
	or internal) which complies with 40 CFR		

Standards: Delay of repair [40 CFR 63.171]

Part 63, Subpart G?

a)	Has a delay of repair been requested for	YES	NO
b)	any piece of equipment found to be leaking? Has a delay of repair been requested for valves, connectors or agitators	YES	ио

[40 CFR 63.171(c)]³⁵?
c) Has a delay of repair been requested for YES NO pumps [40 CFR 63.171(d)]?

Standards: Closed-vent system and control device [40 CFR 63.172]

a) Which closed-vent system and control device is used to control organic emissions?

1)	Vapor recovery or recapture system?	YES	NO
2)	Enclosed combustion device?	YES	NO
3)	Flare?	YES	NO

b) If a vapor recovery or recapture system is used, is it designed and operated to reduce organic vapors vented to

³⁴10,000 ppm applies to agitators; 5,000 ppm applies to pumps handling polymerizing monomers; 2,000 ppm applies to pumps in food/medical service; 500 ppm applies to the remaining equipment under this section.

³⁵A delay of repair beyond a process unit shut-down will be allowed for a valve under certain conditions [see 40 CFR 63.171(e)].

them:

	1)	By 95 percent or greater (control		YES NO
		efficiency of 95 percent)?		
	2)	To 20 ppm by volume?	YES	NO
c)		n enclosed combustion device is used, is it operated to reduce organic vapors vented to		gned
	1)	By 95 percent or greater (control		YES NO
		efficiency of 95 percent)?		
	2)	To 20 ppm by volume?	YES	ИО
	3)	By ensuring a residence time of	YES	NO
		0.5 seconds at a minimum temperature of 760°C?		
d)	If a	flare is used, is it complying with	YES	NO
	40 CI	FR 63.11 (b)(1-8)?		
e)	to e	ne O/O monitoring the control device nsure proper operation and maintenance ne system?	YES	NO
f)		ne 0/0 conducting initial and annual	YES	NO
		ections for leaks using Method 21?		
g)	Is th	ne 0/0 conducting annual inspections leaks ³⁶ ?	YES	NO
h)	Does	the closed-vent system have a bypass	YES	NO
		that could divert a vent stream away the control device?		
	1)	Does the bypass have a flow indicator		YES NO
		installed which takes a reading at		
		least once every 15 minutes?		
	2)	Is the bypass line valve secured in a		YES NO
		non-diverting position with a car-seal		
		or a lock-and-key type configuration?		
	3)	Is the closure mechanism inspected at		YES NO
		least once every month to ensure it		
		is maintained in the non-diverting position?		
i)		ne O/O claiming any of the following conditing ptions/special monitoring for closed-vent sy Designated unsafe-to-monitor		s? YES

 $^{^{36}}$ Annual inspections for hard-piped systems may be visual while for duct-work systems must be done using M21.

NO
[40 CFR 63.172(k)]?

2) Designated difficult-to-monitor
[40 CFR 63.172(l)]?

3) The facility is subject to and complying with requirements in 40 CFR 264, 265 [40 CFR 63.172(n)]?

<u>Standards: Agitators in gas/vapor service and in light liquid service [40 CFR 63.173]</u>

serv	rice	[40 CFR 63.173]		
a)	Is e	each agitator:		
	1)	Monitored monthly to detect leaks		YES NO
		using Method 21?		
	2)	Visually inspected weekly to detect	YES	NO
		leaks?		
b)		the O/O claiming any of the following conditantions for agitators?	ional	-
	1)	Equipped with a dual mechanical seal	YES	NO
	± /	system that includes a barrier fluid	125	110
		system [40 CFR 63.173(d)]?		
	2)	Designed with no externally actuated	YES	NO
		<pre>shaft penetrating the agitator housing [40 CFR 63.173(e)]?</pre>		
	3)	Equipped with "a closed vent system	YES	NO
		and control device [40 CFR 63.173(f)]?		
	4)	Located within the boundary of an		YES
		-		NO
		unmanned plant site [40 CFR 63.173(g)]?		
	5)	Designated as difficult-to-monitor		YES
	J	20025		NO
		[40 CFR 63.173(h)]?		
	6)	Obstructed by equipment or piping		YES
	٠,			NO
		preventing access to the agitator		110
		by a monitor probe [40 CFR 63.173(i)]?		
	7)	Designated as unsafe-to-monitor	YES	NO
	, ,	[40 CFR 63.163(j)]?	TED	140

Standards: Connectors in gas/vapor service and in light liquid service [40 CFR 63.174]

a) Is the O/O initially³⁷ and annually YES NO (bi-annually or every four years thereafter) monitoring connectors for leaks [40 CFR 63.174(b)(1-3)]?
 b) Is the O/O claiming any of the following conditional exemptions for connectors?

Designated as unsafe-to-monitor

YES NO

[40 CFR 63.174(f)]?

2) Designated as unsafe-to-repair

YES NO

³⁷In general, initial monitoring should occur within the first 12-months of operations.

[40 CFR 63.174(g)]?

Which are inaccessible, ceramic 3) or ceramic-lined [40 CFR 63.174(h)]?

YES NO

	ity Improvement Programs for valves or pumps CFR 63.175 or 176, respectively]		
a)	Has the 0/0 established a quality		YES NO
b)	<pre>improvement program (QIP) for valves? Does the QIP for valves comply with 40 CFR 63.175(d)?</pre>	YES	NO
c)	Does the QIP for valves comply with 40 CFR 63.175 (e)?	YES	NO
d) e)	Has the O/O established a QIP for pumps? Does the QIP for pumps comply with 40 CFR 63.176(d)?	YES YES	NO NO
proc	rnative means of emission limitation: General, Eesses or enclosed-vented process units CFR 63.177, 178 or 179, respectively]	<u>Batch</u>	
a)	Has the O/O requested permission to use an alternate standard involving equipment, design or operational requirements [40 CFR 63.177(b)]?	YES	NO
b)	Has the 0/0 requested permission to use an alternate standard involving work practice [40 CFR 63.177(c)]?	YES	NO
c)	Has the O/O requested permission to use a unique approach for emission limitations [40 CFR 63.177(d)]?	YES	NO
d)	Has the 0/0 elected to use pressure testing of batch process equipment to demonstrate		YES NO
e)	compliance [40 CFR 63.178(b)]? Has the 0/0 elected to use Method 21 monitoring of batch process equipment to demonstrate compliance [40 CFR 63.178(c)]?	YES	мо
f)	Has the O/O requested permission to use a total enclosure vented through a CVS to a control device to demonstrate compliance	YES	NO

[40 CFR 63.179]?