Initial Notification Report for Existing* Machines

PART ONE - Genera	al Information				
Person Preparing Re	port:Last,	First,	MI	_Date:	
	Lust,	1 1130,	1411		
Company Name:					
Mailing Address:					
	Number,	Street,	City/Town,	State,	Zip Code
Equipment					
Location Address:	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine S	ummary				
Identification	Number		<u>Description</u>		
		_			
					
		_			
		_			
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		_			
		<u> </u>			
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^{*}Existing cleaning machines are cleaners installed on or before November 29, 1993.

Initial Notification Report for Existing* Machines

PART TWO - Information Required per Machine (Make copies for additional machines if needed)

er Identificaiton Number:	
Type of machine (check one):	
Batch vaporIn-line	
Solvent/air interface area	square meters (or square inches).
Existing controls	
Freeboard ratio of 1.0Freboard refirgeration deviceSuper-heated vaporWorking-mode coverOtherControl	Carbon adsorberReduced room draftDwell
Date of installation (attach documentation):_	
Anticipated compliance approach Basic equipment standard Alternative standard	Idling limit
Annual estimate of halogenated HAP solvent	consumption: (or pounds/year)
	Type of machine (check one): Batch vaporIn-line Solvent/air interface area Existing controls Freeboard ratio of 1.0 Freboard refirgeration deviceSuper-heated vapor Working-mode coverOther Control Date of installation (attach documentation): Anticipated compliance approach Basic equipment standardAlteranative standard Annual estimate of halogenated HAP solventers

^{*}Existing machines are cleaners installed on or before November 29, 1993.

Initial Notification Report for New* Machines

(Application for Approval of Construction or Reconstruction)

PART ONE - Gener	ral Information				
Person Preparing Re	eport:Last,	First,		_Date:	
	Last,	riist,	IVII		
Company Name:					
Mailing Address:					
Mailing Address:	Number,	Street,	City/Town,	State,	Zip Code
Equipment Location Address:					
	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine S	Summary				
Identification	n Number		Description		
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		_			
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^{*}New cleaning machines are cleaners installed after November 29, 1993.

Initial Notification Report for New* Machines

PART TWO - Information Required per Machine (Make copies for additional machines if needed)

Clean	er Identificaiton Number:
1.	Type of machine intended for construction/reconstruction (check one):
	Batch vaporCold in-lineVapor in-line
2.	Solvent/air interface area square meters (or square inches).
3.	Existing controls
	Freeboard ratio of 1.0 Freboard refirgeration device Super-heated vapor Working-mode cover Carbon adsorber Reduced room draft Dwell Other Control
4.	Proposed construction or reconstruction commencement date:
5.	Expected contruction or reconstruction completion date:
6.	Anticipated compliance approach
	Basic equipment standardIdling limitAlteranative standard
7.	Annual estimate of halogenated HAP solvent consumption:
	kilograms/year (or pounds/year)

^{*}New machines are cleaners installed after November 29, 1993.

Initial Statement of Compliance for Machines Complying with the Equipment Standard

PART ONE -	- General Info	mation					
Person Prepa	ring Report:	Last,		First,	MI	_Date:	
Company Na	me:						
Mailing Add	ress:Num	ber,	Street,			State.	Zip Code
Equipment	lress:				enty, rown,	state,	Zip code
Location 7 ta		ber,	Street,		City/Town,	State,	Zip Code
Cleaning Ma	chine Summar	у					
<u>Identi</u>	fication Numb	<u>oer</u>			Description		
			_				
			_				
			_				
			_				
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			_				
			_				
			_				

Initial Statement of Compliance for Machines Complying with the Equipment Standard

PART TWO - Information Required per Machine (Make copies for additional machines if needed)

Cleane	er Identificaiton Number:	
1.	Type of machine (check one):	
	Batch vapor	<u>I</u> n-line
2.	Solvent/air interface area	square meters (or square inches).
3.	Equipment standard compliance met	hod chosen:
	Control combinationIdling emission limit (idling e	emission limit test report attached)
4.	Control equipment used to comply w	ith the rule:
	Freeboard ratio of 1.0Freboard refirgeration deviceSuper-heated vaporWorking-mode cover	Carbon adsorberReduced room draftDwell
	Other_	Other
	Control Other	Control Other
	Control	Control

Initial Statement of Compliance with the Equipment Standard, cont.

5. Monitoring parameters and values:

Control	Measured Parameter	Compliance Parameter Value
(Check all that apply) ☐ Freeboard Refrigeration Device	Temperature at the center of the air blanket while idling	· ≤ 30 percent of the solvent boiling point.
☐ Cover (Working and idling-mode)	Use, function and integrity	 Opens and closes properly Closed except during parts entry and removal Closes completely Free of cracks, holes, or other defects
□ Dwell	 Period of time parts are held in the solvent cleaning freeboard area above the vapor zone after being cleaned. 	 Determine for each of your parts or parts baskets you clean, or, Determine using the most complex part type or parts baskets you clean.
☐ Superheated Vapor System	 Temperature at the center of the super-heated vapor zone while idling 	• At least 10°F above the solvent's boiling point
□ Reduced Room Draft	 Windspeed - Room parameters (e.g., enclosure*) 1	 < 15.2 meters per minute (50 feet per minute) 1
*If a full or partial enclosumachine, attach the initial	re is used to achieve the reduced monitoring test.	l room draft for your cleaning
	Working-mode exhaust halogenated solvent concentration (weekly measurement records of the exhaust halogenated solvent concentration attached)	· ≤ 100 ppm
□ Other		

Initial Statement of Compliance for Machines Complying with the Alternative Standard

PART ONE - Genera	al Information				
Person Preparing Re	port:Last,	First,	MI	_Date:	
Company Name:	·	ŕ			
Mailing Address:	Number,		City/Town	State	Zin Codo
Equipment	Number,	Street,	City/Town,	State,	Zip Code
Location Address:	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine S	ummary				
Identification	_	_	Description		
		_			
		_			
		_			
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		_			
		_			
		_			
		_			

Initial Statement of Compliance for Machines Complying with the Alternative Standard

PART TWO - Information Required per Machine (Make copies for additional machines as necessary)

Clear	ner Iden	tification Number:	
1.	Type	of machine (check one):	
		Batch vapor	In-line
2.	a)	Solvent/air interface area:feet), or	square meters (or square
	b) if	Cleaning capacity:	cubic meters (or cubic feet),
		your cleaning machine does not he (calculation method and results for	
3.		First 3-month average emissions is _ ds per month) (calculation sheets ar	

Annual Report

PART ONE - Genera	ai miormation				
Person Preparing Re	port:			Date:	
1 2	Last,	First,			
Company Name:					
Mailing Address:					
	Number,	Street,	City/Town,	State,	Zip Code
Equipment					
Location Address:	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine S	ummary				
Identification	<u>Number</u>		Description		
		_			
		<u> </u>			
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		_			

Annual Report

PART TWO - Information Required per Machine (Make copies for additional machines as necessary)

Cleaner Identification Numbe	er:		
Check compliance option cho	osen and fill out appr	opriate report re	quirements.
□ Control Options			
All operators of solvent operation of solvent of the required operator to	leaning machines and		raining on the proper evices sufficient to pass
	Signature		Date
Previous year's solven	t consumption		_kg/yr (or lb/yr).
☐ Alternative Standard			
Cleaning machine size	e:		
Solvent/air into	erface area		_m ² (or ft ²)
Solvent cleaning	or ng capacity		$_{\rm m}^{\rm m}^{\rm m}$ (or ft ²)
Average monthly solv	rent consumption		_kg (or lb)
Three month rolling average emission estimates	1kg (or lb)	Date	Date
(calculations attached):	1kg (or lb)	From Date	To Date
	1kg (or lb)		

Annual Report

PART THREE - Information Required per Machine (Make copies for additional machines as necessary)

☐ Facility-wide Emission	n Limit			
12-month rolling total emission estimate (calculations attached):	Kg/yr (or lb/yr)	From Date	To	Date
Average monthly solvent consumption (calculations attached):	Kg/month (or lb/month)	FromDate	То	Date

Exceedance Report

PART ONE -	General Info	rmation						
Person Preparir	ng Report:	Last,		First,	MI		ate:	
Company Name	e:							
Mailing Addres	SS:	1	G, ,		C'. /T		<u> </u>	7' 0 1
	Num	ber,	Street,		City/Town	l, S	State,	Zip Code
Equipment Location Addre	·66.							
Location 7 idaic	Num		Street,		City/Town	1,	State,	Zip Code
Cleaning Mac	hine Summa	ry						
Identific	cation Numb	<u>er</u>			Description	<u>n</u>		
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Exceedance Report

PART TWO - Information Required per Machine (Make copies for additional machines as necessary)

Cleaner Identification Number:
Check appropriate box and answer the requested information.
□ Exceedance
Exceedance the occurred:
Date of occurrence:
Actions taken:
Results of actions:
□ No exceedance occurred.

Initial Notification Report for Batch Cold Cleaning Machines

Person Preparing Re	eport:			_Date:	
	Last,	First	, MI		
Company Name:					
Mailing Address:					
	Number,	Street,	City/Town,	State,	Zip Code
Equipment Location Address:					
Location radiess.	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine	Summary				
Identification	n Number		<u>Description</u>		
		<u></u>			
		<u> </u>			
-		<u> </u>			
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		<u></u>	_		
		<u> </u>	-		
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^{*}Existing cleaning machines are cleaners installed on or before November 29, 1993.

Initial Notification Report for Batch Cold Cleaning Machines

PART TWO - Information Required per Machine
(Make copies for additional machines if needed)

Cleaner Identification Number:

Cleaning Machine Type (circle one): Immersion Remote-reservoir

Machine Installation Date:

Anticipated equipment control combination compliance approach (sircle one):

Cover and Water Layer Cover and a 0.75 Freeboard Cover with Work Practices
Ratio or Greater with Work
Practices

Annual solvent consumption estimate: _____ kg/yr (or lb/yr).

Compliance Report for Batch Cold Cleaners

Person Preparing Re	eport:			Date:	
1 2	Last,	First,	MI		
Company Name:					
Mailing Address:					
	Number,	Street,	City/Town,	State,	Zip Code
Equipment					
Location Address:	Number,	Street,	City/Town,	State,	Zip Code
Cleaning Machine	Summary				
<u>Identification</u>	n Number		<u>Description</u>		
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		<u> </u>			
		<u>—</u>			
		_			
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^{*}Existing cleaning machines are cleaners installed on or before November 29, 1993.

Compliance Report for Batch Cold Cleaners

PART TWO - Information Required per Machine
(Make copies for additional machines if needed)

Cleaner Identification Number:

Cleaning Machine Type (circle one): Immersion Remote-reservoir

This batch cole cleaner complies with the rule.

Signature Date

Method of compliance (circle one):

Cover and Water Layer Cover and a 0.75 Freeboard Cover with Work Practices Ratio or Greater with Work

Practices

COMPLIANCE DETERMINATION WORKSHEET

Cleaner	Use		v or		Pick One		Solvent	Other ^b
Identification Number	Halogenated Solvent? ^a	Exis	sting ?	Batch line	Batch	In-	Air Interface Area?	
		N	Е	Cold	Vapor			

 ^a Greater than 5 persent.
 ^b Miscellaneous notes, including cleaning capacity if machine is a batch vapor cleaning machine with no solvent air interface.

Automated Parts Handling - Hoist Speed Recordkeeping Form

Machine	Type (circle one):	Bate	ch Vapor	In-line
Maximur	m Allowable Hoist	Speed - 3.4 n	neters per minute	(11 feet per minute)
Date/ Initials ^a	(1) Distance Moved (meters or feet) ^b	(2) Time Elapsed (minutes)	Hoist Speed (1)*(2) (meters or feet per minute	Distance Description ^c (Starting point/ending point)
a D :	of inspection and in	· · · 1 . C 1	1	

Carbon Adsorber Recordkeeping Form

Cleaning M	Machine Identification I	Number:		_		
Machine T	ype (circle one):	Batch Vapor	r	In-line		
Maximum	allowable outlet conce	ntration of the c	overed solvents:	100 ppm		
Date/ Initials ^a	Outlet Concent (ppm)	ration	Date/ Initials ^a	Outlet Concentration (ppm)		

^a Date of inspection and initials of employee conducting inspection.

Cover Recordkeeping Form

Cleaning Machine Identifica	tion Number:		
Machine Type (circle one):	Batch Cold	Batch Vapor	In-line

Date/Initials ^a	Opening & Closing Properly ^b		Completely Covers Openings ^b		Free of Cracks, Holes and Other Defects	
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N
	Y	N	Y	N	Y	N

Date of inspection and initials of employee conducting inspection.
 Circle appropriate answer: Y = Yes, N = No.

Dwell Determination Test Recordkeeping Form

Cleaning Machine	e Identifica	ntion Number:		
Parts Description	:			
Date/Initials ^a		Time for Parts to Stop		Individual Dwell
		Dripping in Vapor Zone		Times (seconds)
		(seconds)		
	Run 1		x 0.35 =	
	Run 2		x 0.35 =	
	Run 3		x 0.35 =	
			Total	/3 = Seconds = Proper Dwell Time
-		ntion Number:		
Parts Description	:			
Date/Initials ^a		Time for Parts to Stop Dripping in Vapor Zone (seconds)		Individual Dwell Times (seconds)
	Run 1		x 0.35 =	
	Run 2		x 0.35 =	
	Run 3		x 0.35 =	
			Total	/3 = Seconds = Proper Dwell Time

^a Date of test and initials of employee conducting test.

Dwell Measurement Test Recordkeeping Form

Cleaning Mad	chine Identification Number:		-
Parts Descrip	tion:		
Proper Dwell	Time:		
Date/ Initials ^a	Actual Dwell (seconds)	Date/ Initials ^a	Actual Dwell (seconds)
			_
			_
			-

^a Date of inspection and initials of employee conducting inspection.

FRD^a Recordkeeping Form

Cleaning M	Machine Identifica	tion Number:			
Machine T	ype (circle one):	Batch Vapor	In-line	Solvent:	
FRD Temp	perature Requirem	ent:			
Date/ Initials ^b	_	uture (°F)	Date/ Initials ^b		Temperature (°F)

a FRD = Freeboard Refrigeration Device.
b Date of inspection and initials of employee conducting inspection.

Reduced Room Draft Initial Windspeed Test Recordkeeping Form

Cleaning Machine Id	entification Nu	ımber:				
Machine Type (circle one): Reduced room draft requirement:		Batch Vapor		In-line	In-line	
		Less that or equal to 15.2 meters per minute (50 fe per minute). Complete A or B, and C.			•	
A. For controlling Ro	oom Parameter	rs:				
		Windspe	eed (meters o	or feet per min	ute)	
	Test	1	Test	2	Test 3	
Corner C ₁						
Corner C ₂						
Corner C ₃						
Corner C ₄						
Average Windspeed =C ₁ +C ₂ +C ₃ +C ₄ /4						
B. For An EncloMaximum enclosureC. Description o			olosure:	(meters or f	eet per minute).	
	100m parame		Ziosuic.			

Reduced Room Draft Windspeed Mearurements

Recordkeeping Form

Cleaning Ma	chine Identification Number	er:		
Machine Type (circle one):		Batch Vapor	In-l	ine
	n parameters, measure wind sing an enclosure, measure			
Date/ Initials ^a	Windspeed (meters or feet per min.	.)	Date/ Initials ^a	Windspeed (meters or feet per min.)
		_		
		- -		
		_ _		
		_ _		
		_ _		
		_ _		
		_ _		

^a Date of inspection and initials of employee conducting inspection.

SHV^a Recordkeeping Form

Cleaning M	Machine Identification Number	er:	
Machine T	ype (circle one):	Batch Vapor	In-line
SHV Temp	perature Requirement:		
Date/ Initials ^a	Temperature (°F)	Date/ Initials ^a	Temperature (°F)
		_	
		_	
		_	
	· -	_	_
	· -	_	-
		_	
		_	

a SHV = Super Heated Vapor.
b Date of inspection and initials of employee conducting inspection.

Annual Solvent Consumption

Ye	Cleaner Identification	Ту	pe of Clear	ner	Annual Solvent Consumption	Other ^a
ar	Number	Batch	Batch	In-line	(kilograms or	Other
	- , 3,	Cold	Vapor		pounds)	

^a Miscellaneous notes, including method used to determine annual consumption estimate (e.g., mass balance) and reference to appropriate calculation sheets.

Overall Emissions Limit Monthly Emissions Recordkeeping Form

(For Machines That Have a Solvent-Air Interface Area)

Cleaner Identification Number:

Month/Year	SA (1)	LSR (2)	SSR (3)	AREA (4)	Monthly Emissions (1) -[(2) + (3)] 3

- SA = Amount of halogenated solvent added (kilograms of solvent added [or pounds of solvent added]) that month.
- LSR = Amount of halogenated solvent removed (kilograms of solvent removed [or pounds of solvent removed]) that month.
- SSR = Amount of halogenated solvent removed from the cleaning machine in solid waste (kilograms of solvent removed [pounds of solvent removed]) that month.

AREA = Amount of halogenated solvent removed from the machine in solid waste (kilograms of solvent removed [or pounds of solvent removed]).

Overall Emissions 3-Month Rolling Average Monthly Emissions Recordkeeping Form

Cleaner I	dentification .	Number:	

	I		I	
Month/Year	E ₁ (1)	E ₂ (2)	E ₃ (3)	3-Month Rolling Average Monthly Emissions $\frac{(1) + (2) + (3)}{3}$

- $E_1 = \text{Monthly emissions (kilograms per square meter [or pounds per square foot])}$ for the current month.
- E_2 = Monthly emissions (kilograms per square meter [or pounds per square foot]) for the previous month.
- $E_3 = Monthly emissions (kilograms per square meter [or pounds per square foot]) from two months prior.$

Idling Emission Limit Initial Test Recordkeeping Form

In-line					
Run:					
Length of Solvent Vapor/Air Interface (S _V), m (or ft):					

Clock Time	Boiling Sump Reading (cm or inches)	Immersion Sump Reading	Windspeed Flow Rate Reading (meters or feet per minute)
6:00 am	$L_{\mathrm{Bi}} =$	$L_{Ii} =$	
10:00 pm	L_{Bf} =	$L_{ m If}$ =	

HALOGENATED SOLVENT CLEANER NESHAP Idling Emission Limit Initial Test Recordkeeping Form (Continued)

Cleaning Machine Identification Number	er:				
Machine Type (circle one): Batch Vapor Ir					
From the data the following calculations can be made:					
1. Area of Solvent/Air Interface: $A_V = S_V * W_V$ $A_V = \underline{\hspace{1cm}}$					
Where:					
A_V = area of solvent/air is	nterface, m ² (or ft ²);				
$S_V = \text{length of solvent/air}$	interface, m ² (or ft); an	nd,			
W_V = width of solvent/air	interface, m ² (or ft).				

2. Calculation of Sump Interfaces

Boiling Sump -

$$A_B = S_B * W_B$$

$$A_B = \underline{\hspace{1cm}}$$

Where:

 A_B = area of the boiling sump interface, m² (or ft²);

 S_B = length of boiling sump, m (or ft); and,

 W_B = width of the boiling sump, m (or ft).

HALOGENATED SOLVENT CLEANER NESHAP Idling Emission Limit Initial Test Recordkeeping Form (Continued)

Immersion Sump -

$$A_I = S_I^* W_I$$

$$A_I = \underline{\hspace{1cm}}$$

Where:

 A_I = area of the immersion sump interface, M^2 (or ft^2);

 S_I = length of the immersion sump, m (or ft); and,

 W_I = Width of the immersion sump, m (or ft).

3. Calculation of the Emmision Rate

$$E = \frac{(L_{Bf} - L_{Bi})rA_{B} + (L_{If} - L_{Ii})rA_{I}}{KA_{V}q}$$

Where:

L_{Bf} = final boiling sump inclined liquid level indicator reading, cm (or in);

 $L_{Bi} = initial boiling sump inclined liquid level indicator reading, cm (or in);$

 L_{If} = final immersion sump inclined liquid level indicator reading, cm (or in);

 L_{li} = initial immersion sump inclined liquid level indicator reading, cm (or in);

 $r = \text{density of solvent, g/m}^3 \text{ (or lb/ft}^3);$

 $A_B =$ area of boiling sump interface, m^2 (or ft^2);

 $A_{I} = \text{area of immersion sump interface, m}^{2} \text{ (or ft}^{2});$

K = 100,000 cm*g/m*kg (or 12 in/ft);

 $A_V = \text{area of solvent-air interface, m}^2 \text{ (or ft}^2\text{); and,}$

q = test time, hr.

Calculation: