Submit in Triplicate

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF AIR QUALITY

Page \_\_\_\_ of \_\_\_\_ **DEGREASERS** 

## Application for Plan Approval to Construct, Modify or Reactivate an Air Contamination Source and/or Air Cleaning Device

1A.	Application is being made for:	entity and Locatio	on of Air Contamin		v		
				OFFICIAL USE ONL			
0	Construction of New Source						
0	Reactivation of a Source						
0	Modification of Existing Source		Application No				
O	Installation of Air Cleaning Device			Unit ID			
0	Amendment to a Previous Application		Date Received				
	Previous Application No		110 / 10 / 10 / 10 / 10 / 10 / 10 / 10				
0	Other		Potential Emissions (T	,			
				VOC Other			
			NO <sub>X</sub> CO .	Other			
			Actual Emissions (TP)	<i>(</i> )			
				VOC			
			NO <sub>x</sub> CO .	Other			
			Change in Actual Emis	ssions (+ or -)			
				VOC			
			NO <sub>x</sub> CO .	Other			
1B.	Type of source						
1C.	Plant in which source is located						
	o NEW o EXISTING						
1D.	If source is new, does it replace another sou (describe source replaced)	urce? o YES o NO		1E. Expected date of	completion		
2A.	Owner of source		2B. Employer I.D. N	No. (Federal IRS No.)			
3A.	Owners designation of source and/or	3B. Location of so	ource Polit	ical Subdivision (	County		
	plant if any	(Street address or I					
3C.	Mailing address (Street or P.O. Box, City, Z	ip Code)			3D. Telephone No.		
4A.	Person to contact regarding this	4B. Mailing address	(Street or P.O. Box, City, S	state, Zip Code)	4C. Telephone No.		
F	Application (name and title)						
5.	Official signing application must be an age application applies. Although he may not have						
		AFFIDA	AVIT				
I.		. being duly	sworn according to l	aw depose and sav	that I am the official		
havin infor	ng primary responsibility for the desi mation included in the foregoing applic	gn and operation of ation is true to the bes	the facilities to which st of my knowledge, in	ch this application formation and belief	applies and that the		
Swor	n to and subscribed before me this	day					
		_					
of	,	Signati	ure				
Notai	ry Public		itle				

#### Section B - Degreasers

1. TYI	PE CAPACITY, & OF	ERATING SC	HEDULE	Ξ												
Unit	A. Type Degreaser i.e., Open Top Conveyorized	B. Manufacturer of Degreaser		C. Model Number	D. Internal Dimensions WxLxD (ft)	mensions Interfacial Area	F. Type of Material Processed	G. Area Per Load (sq. ft.)	H. Average hr/day	I. Total hr/yr	% Load/Quarter					
	Conveyorized										1st	2nd	3rd	4th		
2. CO	NTROLS	·										•	•			
	A. B. Per ver Lal	l/ Operating Board		D. Wa Jack		E. Primary Condenser Coil nlet Temp °F  F. Condenser Flow-Switch & Thermostat			H. Vapor Level	I. Drying Tunnel	J. Entrance & Exit Silhouette For		K. Conveyor Speed/Hoist	yor L.	L. Exhaust Ventilation	
Mar	ual/ Ope			Inlet	et Coil		For 4 inche	hes The	es Thermostat	or Equivalen	4" Clearance/< 10%		Speed (fp		(cfm)	
Towered Require			Temp 1					- T		t		Opening				
3.A. List typed of solvents used as a percent of total usage & boiling point of each solvent.																
3.B. Annual Amounts of each solvent used.						3.C. % Usa	nge/Quarter	1st	2nd	3rd	4th					
4. Att	ach dimensioned dia	gram of degre	easer & ai	ny addition	al information ne	cessary for thorough	evaluation. In	clude: Heat ir	nput, Sump	temperature	e, Still, etc.					
		-	and recor	d all operat		at may affect the emis		ntaminants.								
					A. Spent solvent from degreaser											
					B. Sludge from still											
						Solvent from sorber										
7. A. Costs of all control equipment including installation costs.																
B. 1	B. Estimated annual operating costs of control equipment only.															

## Section C - Control Equipment

1. R	EFRIGERATED CHILLERS					
A	Manufacturer					
В	. Type Check One o Subzero Chiller o Above Zero Chiller					
C.	Model No.					
D	Coolant Units  Refrigeration rating Hp					
E.	E. Operating Temperature °C Refrigerant Temperature °F Lowest air blanket temperature at the center line of the tank °F					
F.	Attach dimensioned sketch of chiller and design specifications					
G.	Attach any manufacturer guarantees					

## ${\it Section} \ {\it C-Control} \ {\it Equipment, Continued}$

2. ADS	ORPTION EQUIPMENT								
A.	Manufacturer	B. Type	(	C. Model No.					
D.	Volume of gases handled	ACFM	E. Inlet temperature (°F)	E. Inlet temperature (°F)					
F.	Design inlet volume (ACF	M)	G. Percent concentration of	G. Percent concentration of solvent in exhaust gases					
H.	Carbon charge per adsorbe Isorber vessels	er vessel and number of	I. Adsorbent type, densit	y and property					
J.	Vapor pressure of solvents	at the inlet temperature	,						
K.	Length of MTZ (supplied l	y the manufacturer based u	pon laboratory data)						
L.	Percent relative saturation	of each solvent at the inlet t	emperature						
M.	Breakthrough capacity	$\left[\frac{1}{1}\right]$	lbs of solvent 00 lbs of adsorbent						
N.	Working capacity of adsor	bent (%)	O. Heel percent or unreco regeneration	verable solvent weigh	nt % in the	absorbent after			
P.	Adsorber diameter (ft) and	l area (ft²)							
Q.	Adsorption bed depth (ft)								
R.	Available steam in pounds	s to regenerate carbon adsorb	per						
S.	Adsorption time per adsor	ption bed							
T.	Inlet concentration (lbs/hr	)	U. Outlet concentration (l	os/hr)	V.	Overall efficiency (%)			
W.	Please supply any addition	nal data to thoroughly evalu	ate the control equipment.		1				

### Section D - Stack and Exhaust Information

1. Exhauster Static Pressure in w.g.
Brake Horse Power Motor H.P.
Speedr.p.m.
2. Stack height above grade (ft)
Grade elevation (ft)
Distance from discharge to nearest property line (ft)
3. Stack diameter (ft) or outlet duct area (sq ft)
4. Weather Cap o YES o NO
5. Indicate on an attached sheet the location of sampling ports with respect to exhaust fans, breeching, etc. Give all necessary dimensions.
6. Can the control equipment be bypassed? o YES o NO
If yes, explain the conditions under which the equipment will be bypassed. (Give the setpoints of affectng parameters.)
7. Outlet volume of exhaust gases:  CFM % Moisture
Crivi r

### Section E - Miscellaneous Information

1. Attach Air Pollution Episode Strategy (if applicable)						
2. If the source is subject to Section 127.3 (special permit requirements)						
a. Demonstrate the availability of emission offset (if applicable)						
b. Provide an analysis of alternate sites, sizes, production processes and environmental control techniques demonstrating that the						
benefits of the proposed source outweigh the environmental and social costs						
benefits of the proposed source outweigh the environmental and social costs						
3. The following requirements are applicable only to construction of a new source.						
a. Briefly describe the nature of the area in which the proposed source is located. Attach a copy of the appropriate portion of the						
$quadrangle\ map\ (7\ 1/2'\ scale)\ published\ by\ the\ U.S.\ Geological\ Survey\ and\ identify\ the\ location\ of\ proposed\ source.$						
b. Demonstrate that the establishment of the new source is justifiable as a result of necessary economic or social development.						
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