

HALOGENATED SOLVENT DEGREASERS



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS RE-INSPECTION (F		· · · —		
AIRS ID#: 1030389 DATE: <u>9/18/2006</u>	ARRIVE: <u>11:15AM</u>	DEPART: <u>12:10AM</u>		
FACILITY NAME: F. K. INSTRUMENT CO	INC			
FACILITY LOCATION: 2134 Sunnydale Blvd				
CLEARWATE	CR 33765			
RESPONSIBLE OFFICIAL: ERICH KLOPFI	ER PHO	NE: (727)787-1485		
CONTACT NAME: ERICH KLOPFER	РНО	NE: (
REMITTANCE YEAR: 2005	ENTITLEMENT PERIOD: 6/22/20 (effective			
PART I: INSPECTION COMPLIANCE STA		ANT Non-COMPLIANCE		
PART II: NOTIFICATION – Rule 62-210.30 (check ☑ appropriate box(es))	0 FAC			
1. Halogenated solvent used at facility: perchloroethylene methylene chloride trichloroethylene 1,1,1-trichloroethane carbon tetrachloride chloroform	Batch Vapor, x New In-line Existing In-line	•		
PART III: CLASSIFICATION – Rule 62-213.	300 FAC			
Indicate the machine type(s) observed at the facility:				
Batch Vapor, $x \le 1.21 \text{ m}^2$	New In-line	Batch Cold (immersion)		
Batch Vapor, $x > 1.21 \text{ m}^2$	Existing In-line	Batch Cold (remote reservoir)		

	T IV: <u>GENERAL CONTROL REQUIREMENTS</u> – Rule 62-213.300 FAC . <u>Batch Vapor and In-Line Machines</u>			
	1. Does the facility maintain an idling and downtime mode cover that is readily opened and closed, that completely covers, has no cracks, holes, or defects; OR maintain a room designed			
	with reduced draft according to Part II, Section (5)(c)6.b of the permit notification?	⊠Yes	□No	
	2. Does the facility maintain a freeboard ratio of 0.75 or greater?	⊠Yes	□No	
	3. Does the facility utilize a parts basket or parts whose size is less than 50% of the solvent-air interface area; OR introduce parts or parts basket at 0.9 m/min (3 ft/min) or less?	⊠Yes	□No	
	4. Does the facility conduct all spraying operations within the vapor zone or an area not directly exposed to ambient air?	⊠Yes	□No	
	5. Does the facility install and maintain an automated parts handling system capable of moving the parts/parts basket at 3.4 m/min. (11ft/min) or less?		⊠No	
	6. Does the facility install and maintain a carbon adsorber on all machines using a lip exhaust? The exhaust concentration should not exceed 100 ppm halogenated solvent, the carbon adsorber should not be by-passed, the lip exhaust shall be located above the closed machine cover	r □Yes	□No	⊠N/A
	7. Does the facility have each machine equipped with: a. a device to shut off sump heat if the solvent level drops to the heater coils? b. a device to shut off sump heat if the vapor level rises above the height of the	⊠Yes	□No	
	vapor condenser? c. a primary condenser?	⊠Yes ⊠Yse	□N □N	
	8. Does the facility store all waste solvent, still bottoms, and sump bottoms in closed containers?	⊠Yes	□No	
В. <u>В</u>	 atch Cold Cleaning Machines Does the facility collect and store all waste solvent in closed containers? Does the facility use a flexible hose or flushing device only within the 	□Yes	⊠No	
	freeboard area?		⊠No	
			⊠No	
	4. Does the facility maintain the solvent level inside the machine at or below the fill line?	Yes	⊠No	
	5. Does the facility immediately clean up spills during solvent transfer? Store wipe rags in a covered container?	□Yes	⊠No	
	6. Does the facility operate the agitator to produce a rolling motion? (applicable only when air or pump agitated solvent bath used)	□Yes	□No	⊠N/A
	7. Does the facility ensure that the machine is not exposed to drafts greater than 40 m/min (132 ft/min) when the cover is open?	_ ∐Yes	⊠No	_
	8. Does the facility ensure that sponges, fabrics, wood and paper products are <u>not</u> placed in the machine?	□Yes	⊠No	
	9. Does the facility employ a tightly fitting cover over the solvent sump? The cover must be closed at all times except during parts cleaning	∐Yes	□No	⊠N/A
_	10. Does the facility employ a tightly fitting cover and a water layer with a thickness of at least 2.5 cm (1 in.); OR employ a tightly fitting cover and maintain a freeboard ratio of 0.75? Tightly fitting cover must be closed at all times except during parts entry and removal.	⊠Yes	□No	□N/A

	PART V: PROCESS VENT CONTROLS – Rule 62-213.300 FAC (not applicable to batch cold cleaning machines) Facility chose to meet requirements using: control device combination / work practice standards					
	(Select contro					
	combination)		<u>DEVICE IN USE</u>			
	1. □g 2. □g 3. □g 4. □g 5. □g 6. □g 7. □g 8. □g	working mode cover reduced room draft freeboard refrig. device freeboard refrig. device	1.0 freeboard ratio -	superheated vapor superheated vapor dwell		
	9.	freeboard refrig. device carbon adsorber	carbon adsorber 1.0 freeboard ratio -	superheated vapor		
В.	Batch Vapor	Machines, $x > 1.21 \text{ m}^2$				
	(Select contro					
	combination	<u>)</u>	<u>DEVICE IN USE</u>			
	 □g 	freeboard refrig. device 1.0 freeboard ratio	superheated vapor Superheated vapor Superheated vapor Superheated vapor Superheated vapor Feduced room draft - Feduced room draft - Feduced room draft - Superheated vapor Superheat	1.0 freeboard ratio working mode cover reduced room draft carbon adsorber dwell 1.0 freeboard ratio superheated vapor		
C.	Existing In-l	Line Machines				
	(Select contro combination)	='	<u>DEVICE IN USE</u>			
	1.	freeboard refrig. device superheated vapor freeboard refrig. device carbon adsorber	1.0 freeboard ratio -			
D.	New In-Line	Machines				
	(Select contro combination)		<u>DEVICE IN USE</u>			
		freeboard refrig. device freeboard refrig. device superheated vapor	superheated vapor - carbon adsorber carbon adsorber			

PART VI: <u>RECORDKEEPING REQUIREMENTS</u> – Rule 62-213.300(3) FAC					
Has the responsible official maintained the following:					
 Owner's manuals, design specifications, and other instructional materials for cleaning machine and control equipment?		<pre></pre>	□No □No ≅No ≅No □No □No □No □No □No □No □No □No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A	
Shea L. Jackson	9/18/2006				
Inspector's Name (Please Print) Date of Inspection					
	~2007				
Inspector's Signature Approximate Date of Next		Inspection	<u> </u>		

COMMENTS: •I met on site with the responsible official Erich Klopfer, and Uwe Moerseburg. Mr. Uwe Moerseburg, vice president of operations has the key for unlocking the tank and he monitors the tank use and maintains the trichloroethylene usage records. I reviewed the records logs with Mr. Klopfer and toured the facility. (See copies)

- I reviewed their records back to 2005. The 3 -month rolling average totals in the record logs ranged from 11 to 28.5 lbs / ft 2 for June 2005 August 2006. There were no exceedances of the 30.7 lb/ft2 emission limit. I discussed with Mr. Klopfer that with the use of trichloroethylene as is based on the size of individual customer contracts, it is possible that he could run into a problem if he needs to use the trichloroethylene may cause to exceed the emission limitation. Mr. Klopfer stated he had only purchase one drum of trichloroethylene this year. (see purchase invoice 6/02/2006)
- He stated the trichloroethylene tank is specifically operated for certain parts, and they had not found a substitute when checking with the P2 program and Tammy Allen.
- I observed the tank it was not in use at this time. The freeboard ratio solvent /air interface is 25" x 16"x 2.75".
- The baskets used for dipping are 2 small baskets one was ~ 12 " x 12" and the other was a round ~ 8 " diameter basket, these were less the 50% of the air/solvent interface area.
- Mr. Klopfer stated parts are occasionally sprayed inside the tank.
- The solvent tank is not required to have a carbon absorber above the closed cover.
- Mr. Klopfer stated the tank is used as the final cleaning stage for parts, which have intricate detail, that is difficult to clean out with other solvents. It is used when specified under certain military defense contracts. The solvent used cannot interfere with the application of coatings used by their clients.
- Mr. Klopfer stated they had come close to their limit and then locked the tank. I explained that the facility must adhere to their emission limit, and that if there were exceedance, it could result in a violation. He asked if they could request a permit change for their limit. I informed him he should check into or they could install a control device for the tank operations.
- There is also use of isopropyl alcohol, for parts cleaning, is ~ 1.5 gallons used per month. I observed cutting oils and water in use for the CNC machines operation. Mr. Klopfer stated they have not made any changes in the chemical products used at the facility, since last year.