

VOLUME REDUCTION, MERCURY RECOVERY, MERCURY RECLAMATION PROCESSES



COMPLIANCE INSPECTION CHECKLIST

	NUAL (INS1, INS2)	COMPLAINT/DISCOVER ARMS COMPLAINT NO:	Y (CI)
AIRS ID#: 0730094 DATE:		ARRIVE: 9:30 A.M.	DEPART:
FACILITY NAME: VEOLIA	A ES TECHNICAL-TALLA	AHASSEE	
FACILITY LOCATION:	342 Marpan Lane		
	TALLAHASSEE 3230	05	
OWNER/AUTHORIZED RE	EPRESENTATIVE: GRE	G NEWTON PHONE:	(850)877-8299
CONTACT NAME: Linda	Dunwoody	PHONE:	,
ENTITLEMENT PERIOD:	5/19/2007 / 5/19/2012 (effective date) (end date)	- Military Wall	
PART I: INSPECTION COI	MPLIANCE STATUS (ch	· ·	Г Non-COMPLIANCE
reclamation processes a paragraph 62-210.300(F.A.C.? (Rule 62-210.3 2. Does this facility emit 62-210.300(4)(c)1., F.A. 3. Was the highest reported Safety and Health Admixabor as set forth in 29 4. Is the area in which the enclosed and kept under 62-296.417(1)(b) 5. Does this facility control a) dual air handling b) a single air handling b. NOTE: *If you have checked Handling Systems.	te any emissions units other and emissions units which a 3)(a), or (b), F.A.C., or have 300(4)(c), F.A.C.)——————————————————————————————————	than the volume reduction, mercine exempt from permitting pursue been exempted from permitting to 10 tons per year or more of mercequal to or less than the United Spanished exposure limit (PEL) of 11. (Rule 62-296.417(1)(a), F.A.C defined in Rule 62-737.200, F.A. rocessing mercury containing langer than the use of: (check either a) mercury controls?	annt to the criteria of gunder Rule 62-4.040,

PART II: CONTROL TECHNOLOGY – Rule 62-210.300, F.A.C. (continued) (check ☑ appropriate box(es))	
*Dual Air Handling Systems	
 6. Has the owner or operator installed a primary air handling system with air pollution control equipment in order to reduce the mercury content of the air collected during the volume reduction and mercury recovery and reclamation processes? (Rule 62-296.417(1)(c)1., F.A.C.)	☐Yes ☐ No ☐Yes ☐ No
	☐Yes ☐ No ☐Yes ☐ No
10. Has the owner or operator installed a secondary air handling system in order to maintain negative pressure in the fully enclosed area of the facility in which the air collected by the primary system is vented? (Rule 62-696.417(1)(c)5., F.A.C.)	☐Yes ☐ No
12. Is the primary air handling system with air pollution controls independent and separate from the secondary air handling system with air pollution controls? (Rule 62-696.417(1)(c)7., F.A.C.)	
**Single Air Handling Systems with Redundant Mercury Controls	
14. Does the redundant air pollution control equipment incorporate at least two (2) carbon filters or equivalent technology arranged in series so that the air passes through both filters before being released? (Rule 62-296.417(1)(d)2., F.A.C.)	and ⊠Yes □ No
b) Was the highest reported exposure limit observed equal to or less than the OSHA PEL of 1 mg/10m ³ for mercury vapor?	or ⊠Yes □ No
 a) Is the mercury content of the sample determined and compared with the OSHA PEL?	⊠Yes □ No ⊠Yes □ No

. •

PART III: <u>RECORDKEEPING REQUIREMENTS</u> —Rule 62-210.300(3)(a)27. & 28., F.A.C. & 62-210.300(4) (check ☑ appropriate box(es))	4)(c)1., F.A.C.
 Does the owner or operator of this facility which is subject to this rule maintain records of monitoring information that specifies and includes: (Rule 62-296.417(2), F.A.C.) a) the date, place and time of measurement?	Yes No
PART IV: GENERAL CONDITIONS/MAINTENANCE REQUIREMENTS - Rule 62-210.300(4)(e)6., 8.,	, & 12., F.A.C.
 (check ☑ appropriate box(es)) Does the owner or operator make every reasonable effort to conduct the specific activity authorized by the general permit in a manner that minimizes adverse effects on adjacent property or on public use of the adjacent property, where applicable, and on the environment, including fish, wildlife, natural resources, water quality, or air quality?	e Yes No Yes No Yes No Yes No
PART V: <u>SPECIAL CONDITIONS AND PROCEDURES</u> – Rule 62-210.300(4)(d)4., F.A.C. (check ☑ appropriate box(es)) A. <u>New or Modified Process Equipment</u>	
Since the last inspection has there been a) installation of any new process equipment?	∐Yes ⊠No
b) alterations to existing process equipment without replacement? c) replacement of existing equipment substantially different than that noted on the most recent notification form? d) If you answered <u>YES</u> to any of the above, did the owner submit a new and complete notification form and appropriate fee (Rule 62-4.050, F.A.C.) to the appropriate DEP or	□Yes ⊠No □Yes ⊠No
local program office?	
Tracy White 04/08/2010	
Inspector's Name (Please Print) Date of Inspection	
Inspector's Signature Approximate Date of Next Inspection	
Inspector's Signature Approximate Date of Next Inspection	
COMMENTS:	
I met with Linda Dunwoody and Randy Williams. Records were available and maintained (once/day). Recordkee were reviewed were as follows: Retort Air room, item #16; Retort processing, item #14; Flourescent Lamp processing.	ping items that essing, item #12;

HID processing, item #18.

The latest Jerome analyzer calibration sheets were observed. The units (three) are re-calibrated once/year.

I viewed the four major equipment areas (as listed above for recordkeeping). The applicable equipment appeared to have sampling ports. The equipment was in operation. No excess emissions were noted. No changes to equipment (as listed in the last inspection report) were noted.

Just before HID processing, two workers were present in a separate, open area of the main building. One worker was processing and breaking the outer glass bulb of HID bulbs. The inner part that contained mercury appeared to remain intact.

The second worker was observed processing compact fluorescent light bulbs (CFBs), one after another. Several boxes of bulbs were awaiting processing. He was separating the glass portion of the bulb from the plastic screw-base by tapping the glass connection to the base with a metal object, thereby cracking the bulb open at the bottom connection point. The top glass portion of each CFB would then fall into a small plastic collection drum. The procedure appeared to allow some of the internal bulb contents to escape as the glass breach occurred.

I asked Ms. Dunwoody about possible concerns from the unconfined CFB emissions. She appeared to explain that the issue was not a problem since the amount of mercury contained in the bulbs was negligable in comparison to regular long-tube fluorescent bulbs. She also explained that the procedure was a manual "pre-process" and was not regulated.

Apparently the existing bulb (HID) processing machines on the site can not properly accept the solid screw base of the CFBs, therefore it must be separated from the glass portion of the bulbs before loading the glass component into the existing machine. Ms. Dunwoody explained that currently the facility does not have a machine to separately process the entire CFBs.

Potential violations observed during the inspection:

- 1) The facility did not choose an air handling system to control emissions from the initial (pre-processing) cracking of the CFBs. Source: Rule 62-296.417 (1) F.A.C.; Rule 62-296.417 (1) (d) 1. F.A.C.
- 2) Also initial CFB processing was not located in a negative containment area. Source: Rule 62-296.417 (1) (b) F.A.C.