



Jeb Bush  
Governor

# Department of Environmental Protection

Northwest District  
160 Governmental Center  
Pensacola, Florida 32502-5794

Colleen Castille  
Secretary

August 19, 2004

Mr. Jeff Kirk  
Operations Manager  
Onyx Special Services  
342 Marpan Lane  
Tallahassee, Florida 32302

Dear Mr. Kirk:

Enclosed is a copy of the report on the July 14, 2004 RCRA compliance inspection that was conducted at your facility located at 342 Marpan Lane, Tallahassee, Leon County, Florida. We found your facility to be in compliance with the Resource Conservation and Recovery Act. This inspection did not address other areas of Department jurisdiction.

If you have any questions concerning this program or the enclosed report, please call Jim Byer at 850/595-8360, extension 1264.

Sincerely,

Jim Byer  
Hazardous Waste Section Supervisor

JCB:jbl  
Enclosure



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## HAZARDOUS WASTE INSPECTION REPORT

1. **INSPECTION TYPE:** ☒ Routine ☐ Complaint ☐ Follow-Up ☐ Permitting ☐ Pre-arranged

**FACILITY NAME:** Onyx Special Services - Tallahassee **DEP/EPA ID #:** FL0000207449

**STREET ADDRESS:** 342 Marpan Lane, Tallahassee, Florida 32305

**MAILING ADDRESS:** 342 Marpan Lane, Tallahassee, Florida 32305

**COUNTY:** Leon **PHONE:** (850) 878-2259 **DATE:** July 14, 2004

**TIME:** 8:30 A.M.

### HW facility status

- ☐ non-handler
- ☐ CESQG
- ☒ SQG
- ☐ LQG
  
- ☐ transporter
- ☐ transfer facility
  
- ☒ TSD
  
- ☐ SQH
- ☐ LQH

### used oil facility status

- ☐ generator
- ☐ transporter
- ☐ transfer facility
- ☐ marketer
- ☐ processor
- ☐ on-spec. burner
- ☐ off-spec. burner
  
- ☐ filter generator
- ☐ filter transporter
- ☐ filter transfer facility
- ☐ filter processor

### Hg facility status

- ☐ exempt
- ☒ generator
  
- ☐ transporter
  
- ☒ Hg recovery facility
- ☒ Hg reclamation facility

### PCW facility status

- ☐ producer
- ☐ transporter
- ☐ recovery facility

## 2. APPLICABLE REGULATIONS:

- |  |  |   |   |
|--|--|---|---|
| <input checked="" type="checkbox"/> 40 CFR 261 | <input checked="" type="checkbox"/> 40 CFR 262 | <input type="checkbox"/> 40 CFR 263             | <input checked="" type="checkbox"/> 40 CFR 264  |
| <input checked="" type="checkbox"/> 40 CFR 265 | <input checked="" type="checkbox"/> 40 CFR 266 | <input checked="" type="checkbox"/> 40 CFR 268  | <input checked="" type="checkbox"/> 40 CFR 270  |
| <input checked="" type="checkbox"/> 40 CFR 273 | <input type="checkbox"/> 40 CFR 279            | <input checked="" type="checkbox"/> 62-710, FAC | <input checked="" type="checkbox"/> 62-737, FAC |

3. **RESPONSIBLE OFFICIAL:** Jeff Kirk, Operations Manager

4. **INSPECTION PARTICIPANTS:** Jeff Kirk / OSS and Jim Byer / FDEP

5. **LATITUDE/LONGITUDE:** Lat 30° 21' 51.2"/Long 084° 16' 07.9"

6. **TYPE OF OWNERSHIP:** private ~~federal~~ ~~state~~ ~~county~~ ~~municipal~~

7. **PERMIT No.:** HO37-82472-004 **DATE ISSUED:** 09/26/01 **EXP. DATE:** 09/26/06

8. Site History and Description:

Onyx Special Services - Tallahassee (OSS) (formally Recyclights;and Superior Support Services, Inc.) has been located at 342 Marpan Lane, Tallahassee, Florida since 1995. The facility currently operates as a mercury reclamation facility under Department Permit H037-82472-OO4 employing on average 8 to 10 personnel. The permit allows OSS to receive, store, recover and reclaim mercury from mercury-containing lamps and devices. This Permit was issued September 26, 2001 and has an expiration date of September 26, 2006. The facility was granted a petition for variance from Rule 62-737.860(4) F.A.C. requiring a 99 percent reclamation rate of the mercury introduced into the facility's process. The initial variance was granted on January 4, 2002 with an expiration date of January 1, 2004, and an additional one-year variance extension was granted on June 8, 2004. The facility was last inspected for RCRA compliance on June 4, 2003 by FDEP with no violations cited.

9. Site Inspections:

On July 14, 2004, OSS was inspected by Jim Byer of the FDEP Waste Management Section, for the purpose of a RCRA compliance inspection. Jeff Kirk, Operations Manager for OSS, accompanied him on the inspection, provided access to the reclamation facilities and descriptions of the recovery activities.

Mr. Kirk reviewed the reclamation process from the arrival of the mercury-containing devices to the recovery of the mercury in the vacuum distiller. The fluorescent bulbs, HID lamps and other mercury containing devices are received and temporarily staged on the south side of the building awaiting processing (Pictures A and B).



Picture A



Picture B

Waste batteries (lead-acid, Ni-Cd, alkaline, magnesium, and lithium) are brokered thru the facility. A storage area is provided on the southeast side of the facility and the bulk containers are transported to Inmetco in Ellwood City PA for metals recovery smelting. Waste electronic ballasts are also stored on the southeast side of the facility and then transported to Onyx Special Services, Stoughton, MA for cold dry separation of metals and potting compound (Picture C).



(Picture C)



Picture D

Near the center of the building the bulbs and lamps are placed on one of two conveyor belts crushed under negative pressure and the residue separated into glass, metal end caps, and mercury containing phosphor powder. The metal end caps are collected in bulk storage containers for recycling as scrap metal with R & L Metals in Tampa, FL. The glass is collected in roll-offs located outside on the north end of the building and is transported to the Leon County Landfill for use as daily cover material (Picture D). This area in and around the glass, metal and cardboard collection and storage locations has been paved with asphalt to provide a stable surface for the materials and aid in daily housekeeping of the area (Picture E).



Picture E



(Picture F)

The mercury containing phosphor powder is collected in 55-gallon drums and staged in the northeast end of the building awaiting processing in the facility's vacuum distiller. A count of the 55-gallon drums of mercury containing phosphor powder stored in the staging area at the north end of the building revealed 24 drums awaiting retort (Picture F). These drums were all labeled, in good condition, closed, and dated. The drums were stacked two high and adequate inspection and aisle room was provided.

A vacuum distiller capable of holding three 55-gallon drums of waste to be processed is used to recover the mercury using heat to vaporize the mercury and subsequent condenser to liquefy the vapors. This process generates condensate wastewater that contains low levels of mercury. This waste stream is managed and disposed of as a hazardous waste. The processed phosphor powder is tested for mercury content, stored, and is transported to the Onyx Pecan Row Landfill facility in Valdosta, GA for incorporation into concrete. The recovered mercury is transported to Bethlehem Apparatus Company in Hellertown, PA for re-distillation and reuse. A copy of the OSS facility's end-users is attached to this inspection report.

A review of the facilities training records for two randomly picked employees indicated that initial and refresher RCRA training requirements are being satisfied and the Respiratory Protection Program was up to date and recorded.

A review of the Recovery Material Log, Hg Vapor Monitoring Log, and the Daily Facility Inspection Log indicate that permit required record keeping was organized, complete and well maintained for the years 2003 and 2004.

10. Summary of Alleged Violations: None

11. Recommendations: None

Report prepared by: \_\_\_\_\_

  
James Byer

Date: August 18, 2004

**Onyx Special Services - Tallahassee  
End Users List**



<u>Mercury</u>	End User:	Bethlehem Apparatus Co., Inc.
	Contact:	
	Address:	Bethlehem Apparatus Co., Inc. 890 Front Street., PO Box Y Hellertown, PA 18055
	Telephone:	610-838-7034
	EPA ID#	PAD002390961
	Process Desc:	The mercury is redistilled for reuse. -
<u>Glass</u>	End User:	Leon County - Division of Solid Waste and Recycling
	Contact:	Rosemary Bottcher
	Address:	Leon County Landfill 7550 Apalachee Parkway Tallahassee, FL 32311
	Telephone:	850-922-0400
	Process Desc:	Crushed glass is used as daily cover for the landfill. -
<u>Aluminum</u>	End User:	R & L Metals
	Contact:	
	Address:	R & L Metals 1902 Oriental Rd Tampa, FL 33619
	Telephone:	813-621-3966
	Process Desc:	Aluminum is smelted for more aluminum. -
<u>Cardboard</u>	End User:	Smurfit Recycling Company
	Contact:	Keith
	Address:	Smurfit Recycling Company 1580 W Beaver St Jacksonville, FL 32209
	Telephone:	904-356-7122
	Process Desc:	Cardboard is recycled for more cardboard. -
<u>Powder</u>	End User:	Onyx Pecan Row Landfill
	Contact:	Micheal McKenney
	Address:	Onyx Pecan Row Landfill 2995 Wetherington Lane Valdosta, GA 31601
	Telephone:	904-998-7226
	Process Desc:	Powder is incorporated into concrete. -
	EPA ID#:	GA0001923895

<u>Mercury</u>	End User:	Onyx Special Services
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Batteries      Contact: **Onyx Special Services - Tallahassee**  
Address: **Onyx Special Services**  
342 Marpan Lane  
Tallahassee, FL 32305  
Telephone: 850-878-2259  
Process Desc: Batteries are retorted to recovery mercury  
EPA ID#: FL0000207449

Alkaline      End User: Inmetco  
NiCd      Contact: Tim Cimperman  
Magnesium      Address: Inmetco  
Lithium      245 Portersville Rd  
Batteries      Ellwood City, PA 16117  
Telephone: 724-758-2800  
Process Desc: Smelting for metals recovery  
EPA ID#: PAD087561015

Lead Acid      End User: Gulf Coast Recycling  
Batteries      Contact:  
Address: Gulf Coast Recycling  
1901 N 66th St  
Tampa, FL 33619  
Telephone: 813-626-6151  
Process Desc: Smelting for metals recovery  
EPA ID#:

Ballast      End User: Onyx Special Services  
Contact: Paul Conca  
Address: Onyx Special Services  
218 Canton St  
Stoughton, MA 02072  
Telephone: 800-478-6055  
Process Desc: Cold dry separation of metals and potting compound  
EPA ID#: MA5000004713

Electronics      End User: Secure Environmental Electronics Recycling (SEER)  
Contact: Ben Ashby  
Address: SEER  
6902 7th Ave East  
Tampa, FL 33619  
Telephone: 813-621-8870  
Process Desc: Dismantle and recycle  
EPA ID#: