



STATE OF TENNESSEE  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
JOHNSON CITY ENVIRONMENTAL FIELD OFFICE

2305 SILVERDALE ROAD  
JOHNSON CITY, TENNESSEE 37601-2162

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November 16, 2015

Mr. Steve Barnett  
Lighting Resources LLC  
128 LP Auer Rd.  
Johnson City, TN 37604

CERTIFIED MAIL  
# 70150640000667858153  
RETURN RECEIPT REQUESTED

Re: **Hazardous Waste Compliance Evaluation Inspection**  
Lighting Resources LLC  
Universal Waste Small Quantity Handler  
TNR 00-003-9925

Dear Mr. Barnett:

On November 12, 2015 the Division of Solid Waste Management (DSWM) conducted a Hazardous Waste Compliance Evaluation Inspection (CEI) at the referenced facility. The inspection was conducted to evaluate the facility's compliance with the *Tennessee Hazardous Waste Management Act*, T.C.A. §68-212-101 et seq., and with Tennessee's Hazardous Waste Regulations (Division Rule Chapter 0400-12-01) Universal Waste regulations promulgated pursuant to those Acts. During the inspection, violations of Tennessee's hazardous waste management regulations were identified. The attached Inspection Report/Notice of Violation (NOV) details inspection findings. Lighting Resources LLC must initiate immediate actions to correct outstanding violations. In addition, please submit all requested documentation to the DSWM by November 26, 2015. The DSWM will conduct a follow-up inspection after **December 21, 2015** to verify the facility's compliance status.

A solid waste inspection was also conducted at the same time as the universal waste large quantity handler inspection. This report does not address the findings of the solid waste inspection. The DSWM appreciates the courtesy and cooperation shown by Lighting Resources LLC during the inspection. Should you have any questions concerning this report, please do not hesitate to contact me at 423-854-5434 or by email: [Bethanie.Glynn@tn.gov](mailto:Bethanie.Glynn@tn.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Beth Glynn".

Beth Glynn, CHMM  
Environmental Consultant I  
Division of Solid Waste Management  
Johnson City Environmental Field Office

cc: Ashley Holt, DSWM/Nashville (electronic)  
Enforcement Section, DSWM/Nashville (electronic)  
Central File, DSWM/Nashville (electronic)  
Johnson City Environmental Field Office File# 90-150 01

## HAZARDOUS WASTE INSPECTION REPORT

### SITE/PHYSICAL LOCATION:

Lighting Resources LLC  
128 LP Auer Rd.  
Johnson City, TN 37604  
TNR 00-003-9925  
SWP 90-000-1510  
County: Washington

### PRIMARY CONTACTS:

Mr. Steve Barnett  
Vice President TN Operations  
Lighting Resources LLC  
128 LP Auer Rd.  
Johnson City, TN 37604  
Telephone: 423-328-7012  
Email Address: [steve.barnett@lightingresourcesinc.com](mailto:steve.barnett@lightingresourcesinc.com)

### DATE AND START TIME OF INSPECTION:

Date: 11-12-15  
Time: 9:25 a.m.

### INSPECTION PARTICIPANTS:

Jon Barnett, Operations Manger  
Lighting Resources Tennessee  
Telephone: 423-328-7012  
Email Address: [jon.barnett@lightingresourcesinc.com](mailto:jon.barnett@lightingresourcesinc.com)

Rick Whitson, Environmental Field Office Manager  
DSWM  
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Chris Lamb, Environmental Protection Specialist 3  
DSWM  
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DSWM  
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Beth Glynn, Environmental Consultant I  
DSWM  
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Email Address: Bethanie.Glynn@tn.gov

**REPORT PREPARED BY:**

Beth Glynn, CHMM  
Division of Solid Waste Management  
Johnson City Environmental Field Office  
2305 Silverdale Drive  
Johnson City, TN 37601  
Telephone: 423-854-5434  
Fax: 423-854-5401  
Email Address: Bethanie.Glynn@tn.gov

**PURPOSE OF INSPECTION:**

This routine inspection was conducted to evaluate Lighting Resources LLC's compliance with the applicable requirements of Tennessee's Hazardous Waste Management Act T.C.A. 68-212, Part 1 Universal Waste regulations and with the regulations adopted pursuant to those Acts. Inspection findings are based upon site observations, file review, and verbal and written information provided by facility personnel during the inspection (including the identification of all physical locations where wastes are generated and managed by the facility). The facility is encouraged to advise the DSWM of any information in the report or attached letter that the facility deems to be incorrect. Any such communication should be submitted to the Division within fifteen (15) days following receipt of this report.

**FACILITY DESCRIPTION:**

The facility operates as a universal waste transporter and universal waste large quantity handler. The facility operates under a Solid Waste Permit By Rule, SWP900001510 and is currently permitted to accept and store on site mercury containing lamps, mercury containing equipment, batteries, lighting ballast, discarded electronics, automotive parts and capacitors prior to shipment to other Lighting Resources LLC facilities for recycling. No processing, as defined by the hazardous waste regulations, of universal waste is currently conducted on-site.

The facility accepts the following types of universal waste mercury containing lamps: Fluorescents of varying lengths, U-shape, compact fluorescent (CFL), high intensity discharge (HID), shielded/coated, broken, ultraviolet, projector lamps and any other types of mercury containing lamps. The facility accepts the following types of universal waste batteries: Wet and dry Nickel cadmium (NiCad), lead acid, lead seal cell, lithium ion, lithium, carbon zinc and mercury. The facility also accepts universal waste mercury equipment and mercury liquid.

The facility services several states in the southern region. Universal waste is considered a hazardous waste in some states; therefore, the facility notified as a hazardous waste transporter and hazardous waste transfer facility permit.

**GENERATOR STATUS:**

Based on the information provided to the DSWM, the facility reported as a conditionally exempt small quantity generator of hazardous waste, a hazardous waste transporter, a hazardous waste transfer facility, a large quantity handler of universal waste and a transporter of universal waste.

**HAZARDOUS WASTESTREAMS GENERATED:**

WS#1 Waste broken fluorescent tubes from incidental breakage (D009), generated at an estimated maximum rate of 5 lb/mo.

**INSPECTION FINDINGS:**

**Facility Site Observations:**

Lighting Resources LLC (LRL) began operations in August 2015 and currently has three employees and operates one shift. The LRL driver picks up customer's universal and recyclable waste at the generator site. Some customers deliver their waste to the site. At the time of the pickup (or drop off), customer information and the type of waste for transportation is documented on a standardized bill of lading. Wastes from several customers may be picked up during one run.

When waste is off-loaded at LRL's warehouse, boxes of universal waste are weighed, dated and opened for inventory. The amount of each type of waste is determined and documented on the customer's bill of lading. If necessary, the universal waste is then segregated into containers by type of waste. Containers are finally palletized and shrink wrapped in preparation for shipment offsite. The original manifests and/or bills of lading for each shipment of universal waste and recyclable material accepted at the Johnson City facility accompany the consolidated offsite shipment of the recyclable material sent to either LRL's Indiana or Arizona facilities. Partially full containers will be shipped to ensure that all of a customer's order is shipped offsite at the same time. A new manifest or shipping paper is not prepared for shipments sent to LRL's other facilities.

*At the time of the inspection several boxes and 55-gallon drums of universal waste lead acid and NiCad batteries were present. The containers were labeled and dated. Eight pallets of spent universal waste bulbs were also present. The containers were labeled, closed and dated. At the time of the inspection, containers of plastic, electronic and automotive air bags were stored on site.*

Facility File Review:

1. PCB ballasts are shipped to Lighting Resources, LLC's facility in Phoenix Arizona (AZD983476680) for reclamation. Review of the manifests documented that one shipment of PCB ballasts were shipped to LRL's Phoenix facility.
2. Crushed and whole universal waste lamps and universal waste batteries are shipped to Lighting Resources, LLC's facility in Indiana for reclamation. Universal waste equipment and liquid mercury accepted at the site will also be shipped to Lighting Resources LLC's Greenwood, Indiana facility for recycling. Per facility personnel three shipments of universal waste were sent to:

Lighting Resources LLC  
Lamp Processing & Retort Facility  
498 Park 800 Drive  
Greenwood, IN 46143  
IN0 00-035-1387

*The facility did not keep a record of the three shipments of universal waste sent from the handling facility to other facilities as required per the regulations.*

3. Bills of lading for shipments received at the facility were reviewed. Two records documented shipment of lead aprons to the facility in September 2015 and one record documented the shipment of lead markers to the facility in September 2015. According to facility personnel, the lead markers and aprons were sent to LRL's facility in Indiana.
4. The facility submitted notification to the DSWM and received an installation identification/hazardous waste transporter number.
5. Facility personnel receive hazardous waste training. Lighting Resources branch manager conducted training at the site for employees on September 16, 2015.

**VIOLATIONS:**

The following violation was identified during this compliance evaluation inspection:

**Violation #1 - Rule 0400-12-01-.12(3)(j)2. states:**

- (3) Standards for large Quantity Handler of Universal Waste
  - (j) Tracking Universal Waste Shipments
    2. Shipments Off-site

A large quantity handler of universal waste must keep a record of each shipment of universal waste sent from the handler to other

facilities. The record may take the form of a log, invoice, manifest, bill of lading or other shipping document. The record for each shipment of universal waste sent must include the following information:

- (i) The name and address of the universal waste handler, destination facility, or foreign destination to whom the universal waste was sent;
- (ii) The quantity of each type of universal waste sent (e.g., batteries, pesticides, thermostats, lamps);
- (iii) The date the shipment of universal waste left the facility.


**Violation #1 Observation:**

*The facility did not keep a record of the three shipments of universal waste sent from the handling facility to other facilities as required per the regulations.*

**REMARKS / RECOMMENDATIONS:**

The DSWM requests the following information be submitted to Johnson City Field Office by November 26, 2015:

- 1. The waste status at the point of generation of the lead markers and the lead aprons that were accepted at the facility on 9-8-2015 and 9-18-2015 as documented on bills of lading TN-EO 082215-001 and TN-EO 082315-003.
- 2. The final management, and name and address of the destination facility, of the lead aprons and markers identified above.

Signed  Dated 11-16-2015  
Beth Glynn, CHMM  
Environmental Consultant I  
Division of Solid Waste Management  
Johnson City Environmental Field Office

Reviewed  Dated 11-16-2015  
Richard A. Whitson, P.E.  
Environmental Field Office Manager  
Division of Solid Waste Management  
Johnson City Environmental Field Office