



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

Re: Krendl Rack Co.  
OHD054163886  
Van Wert County  
Hazardous Waste  
Small Quantity Generator  
**Notice of Violation**

December 7, 2012

Mr. Tony Laman, Co-Owner  
Krendl Rack Co., Inc.  
18413 Haver Road  
Venedocia, Ohio 45894

Dear Mr. Laman:

Thank you for accompanying me during Ohio EPA's November 28, 2012, compliance evaluation inspection (CEI) of Krendl Rack Co., Inc. (KRC) located in Venedocia, Ohio. Mr. Jeff Koverman, co-owner of KRC also accompanied us. I inspected KRC to determine its compliance with Ohio's hazardous waste laws as found in Chapter 3734. of the Ohio Revised Code (ORC) and Chapter 3745. of the Ohio Administrative Code (OAC). My inspection included a tour of your facility and a review of written documentation. This letter will explain the violations I found and what you need to do to correct the violations.

KRC designs, fabricates and coats electroplating racks, powder coating and e-coating paint racks. Racks are made of copper, stainless steel, hot rolled steel and aluminum. The process involves basic machining: bending, drilling, cutting and assembly. The joints are soldered with lead and tin solder. The finished racks are coated with plastisol. The plastisol is lead free and has a zinc base. In the plastisol coating shop, in a second building, the ends of the racks are dipped in a soap solution. Next the rack is heated in a furnace at 400°F for fifteen minutes. From the oven the entire rack dipped into a tank of plastisol. The heat from the furnace makes the plastisol cling to the rack. The coated racks are air dried. Finally the plastisol on the tips of the racks is cut off. The metal tips are necessary to maintain electrical contact with the object to be plated or coated.

KRC also refurbishes old racks. The old plastisol is burned off in a furnace at 425°F. Once heated it is crumbly and can be knocked off with a bar. Next the racks are sent to a company in Lima that shot blasts them clean. They are returned to KRC where they are straightened, the tips are replaced and they are re-coated.

KRC generates the following hazardous and universal wastes:

1. Waste Burn-off Plastisol (D008 & D007): Past sampling and analysis indicates that the waste is hazardous for lead. KRC believes that the lead comes from the lead and tin solder in the joints of the racks. KRC also was concerned about chromium in the waste from plating operations. I observed beads of chromium on various racks ready for refurbishing. Therefore, this waste should also be designated hazardous for chromium (D007). KRC agreed.

This waste weighs approximately 87 pounds per drum – or 39 kg. KRC generates about 8 drums each month – or 312 kg. KRC generates about 50 drums every 180 days. This is a total of 4, 350 pounds – or 1,975 kg. K-Com Transport Services, Inc. ships this waste to Envirosafe Services of Ohio in Oregon, Ohio.

2. Waste Lamps: KRC has been placing waste lamps in the facility trash. They agreed to begin recycling their waste lamps as universal waste.

I found the following violations of Ohio's hazardous waste laws:

1. **Waste Evaluation**  
**OAC Rule 3745-52-11**

A generator must determine whether its waste is hazardous by first determining if the waste is listed as a hazardous waste in rules 3745-51-30 to 3745-51-35; by testing the waste according to the methods set forth in rules 3745-51-20 to 3745-51-24; or by applying knowledge of the hazardous characteristic of the waste in light of the materials or the processes used. KRC failed to thoroughly evaluate its plastisol burn-off waste, according to this rule. It has been designated characteristic for lead (D008) but I observed chromium contamination on racks at the facility, so the waste should also be evaluated for TCLP chromium.

In order to abate this violation, KRC must immediately obtain a representative sample of the waste and have it analyzed for TCLP chromium or add the hazardous waste number D007, for TCLP chromium, to its records, including container labels, manifests and land disposal restriction notice and notify Ohio EPA of its actions.

2. **Container Labeling**  
**OAC Rule 3745-52-34(D)(4)**

While being accumulated on-site, each container must be labeled or marked clearly with the words "Hazardous Waste".

KRC did not label or mark at least thirty-nine 55-gallon drums of its plastisol burn-off waste (D008 & D007) with the words "Hazardous Waste". In order to correct this violation, KRC must properly mark these containers and submit photographic documentation that they have been properly marked.

3. **Container Accumulation Date**  
**OAC Rule 3745-52-34(D)(4)**

The date upon which each period of accumulation and/or treatment begins must be clearly marked and visible for inspection on each container.

KRC did not mark at least thirty-nine 55-gallon drums of its plastisol burn-off waste (D008 & D007) with the date in which its period of accumulation began. In order to correct this violation, KRC must properly mark these containers and submit photographic documentation that they have been properly marked.

**4. Management of Containers**  
**OAC Rule 3745-66-73(A)**

A container holding hazardous waste shall always be closed during storage, except when it is necessary to add or remove waste.

KRC did not close at least thirty-nine 55-gallon drums of its plastisol burn-off waste (D008 & D007). In order to correct this violation, KRC must close these containers and submit photographic documentation that they have been closed.

**5. Waste Evaluation**  
**OAC Rule 3745-52-11**

A generator must determine whether its waste is hazardous by testing the waste according to the methods set forth in rules 3745-51-20 to 3745-51-24. KRC has failed to evaluate its spent lamps (all types), according to this rule, and they have been placed into the trash. In order to abate this violation, KRC must evaluate its spent lamps. **Instead** of obtaining a sample of the lamps and having the sample analyzed in a laboratory, KRC may elect to manage its spent lamps (all types) as universal waste (for recycling). The requirements for universal waste lamps include:

- **Immediately** prevent spent lamps from being placed into the trash;
- Place spent lamps into closed containers that are structurally sound (boxes for example);
- Label the containers with the words "Used Lamps";
- Document the length of time that the spent lamps are stored (place a date on the boxes);
- Store spent lamps for no longer than one year;
- Inform all employees with the responsibility to collect spent lamps of these requirements; and
- Ship the spent lamps to a lamp recycler (please refer to the list of recyclers that I gave to you during my inspection).

In order to abate this violation, please explain how you intend to manage your used lamps and to comply with the requirements listed above. Indicate how you will package the lamps, label the containers, and date the containers. Please submit photos demonstrating that this has been done. Please also submit documentation that employees have been made aware of the rules for managing used lamps. Also, please indicate where you will ship the universal waste lamps to.

Please be aware that incandescent, fluorescent, metal halide, neon, high-intensity discharge, high-pressure sodium and mercury-vapor lamps could be hazardous waste when discarded. Fluorescent lamps may contain up to 40 milligrams (mg) of mercury, depending on the brand and manufacturer. Lamps may also contain lead and cadmium. Many lamps exhibit a characteristic of toxicity for heavy metals when disposed.

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During the inspection, I gave you a copy of the following document to assist you in properly managing your spent lamps: Computer, Fluorescent Lamp and Ballast Recyclers. I have enclosed another copy of this list of recyclers. I have also enclosed a copy of Universal Waste Rules for Handlers of Lamps. I recommend that you review these documents carefully and contact me if you have any questions. The fact sheet describes the rules you must follow in order to manage lamps as a universal waste.

You may be able to reduce the waste your business generates. If you find ways to recycle, reduce or altogether eliminate the amount of waste that your business generates, you may be able to reduce your treatment and disposal costs and you may possibly reduce your regulatory requirements. I have enclosed copies of the following fact sheets: Pollution Prevention Opportunities, a worksheet that can help you recognize opportunities for reducing waste and conserving energy at your facility, and the fact sheet Management of Electronic Waste from Businesses. Please review this information and contact me if you have any questions. I encourage you to schedule a pollution prevention assessment for your facility because there are often many opportunities for facilities like yours to reduce waste and save money. If you wish to talk about an assessment or if you have other questions about pollution prevention, please feel free to contact the Office of Compliance Assistance and Pollution Prevention (OCAPP) at (614) 644-3469. There is no charge for an assessment.

The Division of Materials and Waste Management has created an electronic news service to provide you with quick and timely updates on events and news related to hazardous waste activities in Ohio. If you haven't already, we encourage you to sign up for this free service. You can find more information at the following Web link:  
[http://ohioepa.custhelp.com/cgi-bin/ohioepa.cfg/php/enduser/doc\\_serve.php?2=subscriptionpage](http://ohioepa.custhelp.com/cgi-bin/ohioepa.cfg/php/enduser/doc_serve.php?2=subscriptionpage). Please feel free to share this information with your colleagues.

KRC needs to immediately take the necessary measures to return to compliance with Ohio's environmental laws. Within 14 days of receipt of this letter, KRC is requested to provide documentation to this office including the steps taken to abate the violations cited above. Documentation of steps taken to return to compliance includes written correspondence, updated policies, and photographs, as appropriate, and may be submitted via the postal service or electronically to [don.north@epa.state.oh.us](mailto:don.north@epa.state.oh.us).

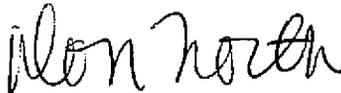
Please be advised that violations cited above will continue until the violations have been properly abated. Failure to comply with Chapter 3734. of the Ohio Revised Code and rules promulgated thereunder may result in a civil penalty of up to \$10,000 per day for each violation. It is imperative that you return to compliance. If circumstances delay the abatement of violations, KRC is requested to submit written correspondence of the steps that will be taken by date certain to attain compliance.

Enclosed you will find copies of all checklists completed during the inspection. If you have any questions, please feel free to contact me at (419) 373-3074.

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You can find copies of the rules and other information on the division's web page at  
<http://www.epa.ohio.gov>. Ohio EPA also has helpful information about pollution prevention at  
<http://www.epa.ohio.gov/ocapp>.

Sincerely,



Don North  
District Representative  
Division of Materials and Waste Management

/llr

**Enclosures**

pc: Cindy Lohrbach, DMWM, NWDO  
Colleen Weaver, DMWM, NWDO (hard copy with checklists) ;

ec: Colleen Weaver, DMWM, NWDO (scanned copy with checklists)  
Don North, DMWM, NWDO

Send to Central Office <input checked="" type="checkbox"/>	<b>Ohio Environmental Protection Agency</b> <b>RCRA SUBTITLE C SITE</b> <b>IDENTIFICATION/VERIFICATION FORM</b>	For Ohio EPA use only
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Completed verification forms required to be submitted to CO should be e-mailed to [EPA.Verification@epa.state.oh.us](mailto:EPA.Verification@epa.state.oh.us).

<b>Site EPA ID No:</b> <b>Site Name</b> <b>Site Location Information</b> <b>Site Land Type</b> (check only one) <b>NAICS code(s)</b> <a href="http://www.census.gov/epcd/www/naics.html">www.census.gov/epcd/www/naics.html</a>	EPA ID Number: <b>OHD054163886</b> Name: <b>Krendl Rack Co., Inc.</b> Website: <b>www.krendlrack.com</b> (Optional) Street Address: <b>18413 Haver Road</b> City, Town, or Village: <b>Venedocia</b> State: <b>OH</b> County Name: <b>Van Wert</b> Zip Code: <b>45894</b> <table style="width:100%; border: none;"> <tr> <td style="border: none;">Private</td> <td style="border: none;">County</td> <td style="border: none;">District</td> <td style="border: none;">Federal</td> <td style="border: none;">Indian</td> <td style="border: none;">Municipal</td> <td style="border: none;">State</td> <td style="border: none;">Other</td> </tr> <tr> <td style="border: none;"><input checked="" type="checkbox"/></td> <td style="border: none;"><input type="checkbox"/></td> </tr> </table>	Private	County	District	Federal	Indian	Municipal	State	Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
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<b>Facility Representative</b>  Additional names can be recorded in number 12.  Only provide address information if it is different than the site address.	First Name: <b>Tony</b> MI: Last Name: <b>Laman</b> Title: <b>Co-Owner</b> Phone Number: <b>419-667-4800</b> Phone Number Extension: E-Mail Address: Fax Number: Fax Number Extension: Street or P.O. Box: <b>RR1, Box 62, Haver Road</b> City, Town or Village: <b>Venedocia</b> State: <b>Ohio45894</b> Zip Code:
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<b>Legal Owner And Operator of the Site.</b> List Additional Owners and/or Operators in the Comment Section or on another copy of this form page.	Name of Site's Legal Owner: Date Became Owner (mm/dd/yyyy): <table style="width:100%; border: none;"> <tr> <td style="border: none;">Owner Type:</td> <td style="border: none;">Private</td> <td style="border: none;">County</td> <td style="border: none;">District</td> <td style="border: none;">Federal</td> <td style="border: none;">Indian</td> <td style="border: none;">Municipal</td> <td style="border: none;">State</td> <td style="border: none;">Other</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><input type="checkbox"/></td> </tr> </table> Street or P.O. Box: City, Town or Village: Owner Phone #: State: Country: Zip Code: Name of Site's Operator: Date Became Operator (mm/dd/yyyy): <table style="width:100%; border: none;"> <tr> <td style="border: none;">Operator Type:</td> <td style="border: none;">Private</td> <td style="border: none;">County</td> <td style="border: none;">District</td> <td style="border: none;">Federal</td> <td style="border: none;">Indian</td> <td style="border: none;">Municipal</td> <td style="border: none;">State</td> <td style="border: none;">Other</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><input type="checkbox"/></td> </tr> </table> Street or P.O. Box: City, Town or Village: Operator Phone #: State: Country Zip Code:	Owner Type:	Private	County	District	Federal	Indian	Municipal	State	Other		<input type="checkbox"/>	Operator Type:	Private	County	District	Federal	Indian	Municipal	State	Other		<input type="checkbox"/>														
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**VIOLATIONS CITED?**  Yes  No

**TYPE OF HANDLER - MARK "X" AS APPROPRIATE**

<input type="checkbox"/> Not a HW Generator	<input type="checkbox"/> UNKNOWN: Cited for violation of 3745-52-11 <input type="checkbox"/> Short-Term/Temporary Generator (generates from a short-term or one-time event and not from on-going processes). Check the box for the applicable generator status and provide a comment.	<input type="checkbox"/> Large Quantity Generator (LQG) <input checked="" type="checkbox"/> Small Quantity Generator (SQG) <input type="checkbox"/> Conditionally Exempt Small Quantity Generator <input type="checkbox"/> U.S. Importer of Hazardous Waste <input type="checkbox"/> Mixed Waste (Hazardous and Radioactive) Generator
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**TYPE OF REGULATED WASTE ACTIVITY (MARK "X" IN ALL OF THE APPROPRIATE BOXES)**

<input type="checkbox"/> Hazardous Waste Transporter	<input type="checkbox"/> Exempt Boiler and/or Industrial Furnace
<input type="checkbox"/> Hazardous Waste Transfer Facility	<input type="checkbox"/> Small Quantity On-Site Burner Exemption
<input type="checkbox"/> Treater, Storer or Disposer of Hazardous Waste	<input type="checkbox"/> Smelting, Melting, Refining Furnace Exemption
<input type="checkbox"/> Recycler of Hazardous Waste	<input type="checkbox"/> Underground Injection Control Facility
<input type="checkbox"/> 72-Hour Recycler	<input type="checkbox"/> Receives Hazardous Waste from Off-site

**UNIVERSAL WASTE ACTIVITIES (INDICATE TYPES OF UNIVERSAL WASTE MANAGED (CHECK ALL BOXES THAT APPLY))**

<input checked="" type="checkbox"/> Small Quantity Handler of Universal Waste	<input type="checkbox"/> Destination Facility for Universal Waste
<input type="checkbox"/> Large Quantity Handler of Universal Waste (accumulates 5,000 kg. or more)	

**CHECK ALL BOXES BELOW THAT APPLY FOR THE TYPES OF UNIVERSAL WASTE THE FACILITY MANAGES**

Batteries  
 Pesticides  
 Mercury containing equipment  
 Lamps

**USED OIL ACTIVITIES (INDICATE TYPE(S) OF ACTIVITY(S))**

Used Oil Generator  
 Used Oil Transporter  
 Used Oil Transfer Facility  
 Used Oil Processor  
 Used Oil Re-refiner  
 Off-Specification Used Oil Burner  
 Used Oil Fuel Marketer who directs shipment of Off-Spec Used Oil  
 Used Oil Fuel Marketer who first claims the Used Oil meets the specifications

**Eligible Academic Entities with Laboratories:** Facility has previously notified that they are opting into managing laboratory hazardous waste pursuant to OAC rules 3745-52-200 through 3745-52-216. Check the box(es) below to indicate the laboratory type.

College or University  
 Teaching hospital that is owned by or has a formal written affiliation agreement with a college or university  
 Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

**Waste Codes for Federally Regulated Hazardous Wastes.** Please list the codes for the federally regulated hazardous waste handled at the site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page or list them in the comments if more space is needed. If the waste codes are the same as listed in the most recent RCRAInfo source record, you do not need to list them. Instead just indicate the date of the most recent source record.

**D008                      D007**

**COMMENTS: USE THIS AREA TO DESCRIBE WHETHER THE INSPECTION WAS ANNOUNCED, WHETHER THE WASTE IS STORED IN TANKS OR CONTAINERS, ETC.**

Announced     Yes     No    Additional Facility Representatives:  
 Tanks             Yes     No  
 Containers       Yes     No

Name of Inspector(s) <b>Don North</b>	Name of Inspector(s)	Date of Inspection/Time (mm/dd/yyyy), (hh:mm) <b>11/28/2012</b>
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**Comments:**

## PROCESS, WASTE, P2 SUMMARY SHEET

**Facility Name:** Krendl Rack Co., Inc. **Facility Type:**  LQG  SQG  CESQG  TSD **Date of Inspection:** 11-28-12 **EPA ID#:** OHD054163886

Waste Generated			On- or Off-Site Management		P2 Activities	
Process/Activity Generating Waste <small>(e.g. plating bath, machining, baghouse, painting, general maintenance, etc)</small>	Waste Description <small>(e.g. sludge, solvent, ash, used oil, spent lamps, etc.) and EPA Waste Code, if applic.</small>	QTY Generated per Month, Type of Accumulation (container, tank, etc) and location of waste accumulation area	Type of On-Site Treatment <small>(recycle, wwt, etc)</small>	Name, state, and type of activity occurring at the off-site facility.	Current P2 Activities	P2 Opportunities
1	Rack refurbishing  Plastisol Burn-Off Waste  D008  D007	8 drums/mo.	None	Envirosafe Services of Ohio  OHD045243706  Oregon, Ohio	Disposal	
2	Facility Lighting  Waste Lamps	Very few occsaionally	None	These have been placed into the facility trash but will now be recycled as a universal waste.		
3						
4						
5						
6						

7							
8							
9							

**REMARKS** **GENERAL INFORMATION**

**General Process Information:**

**Regulatory/Enforcement History** (if applicable):

**Additional P2 remarks and information:**

Would this facility be interested in a P2 assessment?  Yes\*  No \*If yes, refer promptly to your district P2 coordinator.  
 Office of Compliance Assistance and Pollution Prevention - 1-800-329-7518 or [p2mail@epa.state.oh.us](mailto:p2mail@epa.state.oh.us) or [www.epa.state.oh.us/ocapp/ocapp.html](http://www.epa.state.oh.us/ocapp/ocapp.html)

**Other:**

**SMALL QUANTITY GENERATOR REQUIREMENTS  
COMPLETE AND ATTACH A PROCESS, WASTE, P2 SUMMARY SHEET**

CESQG: ≤100Kg. (Approximately 25-30 gallons) of waste in a calendar month or < 1 Kg. of acutely hazardous waste.  
 SQG: Between 100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calendar month.  
 LQG: ≥ 1,000 Kg. (~300 gallons) of waste in a calendar month or ≥1 Kg. of acutely hazardous waste in a calendar month.  
**NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds.**

Safety Equipment Used:

**GENERAL REQUIREMENTS**

1.	Have all wastes generated at the facility been adequately evaluated? [3745-52-11] <b>KRC has not evaluated its waste lamps and should add the hazardous waste number D007 for TCLP chromium to the records for its plastisol burn-off waste.</b>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
2.	Has the generator obtained a U.S. EPA I.D. number? [3745-52-12]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
3.	Has the generator transported or caused to be transported hazardous waste to <b>other</b> than a facility authorized to manage the hazardous waste? [ORC 3734.02 (F)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
4.	Has the generator disposed of hazardous waste <b>on-site without a permit</b> or at another facility <b>other</b> than a facility authorized to dispose of hazardous waste? [ORC 3734.02 (E) & (F)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
5.	Does the generator accumulate hazardous waste?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

*NOTE: If the SQG does not accumulate or treat hazardous waste, it is not subject to 52-34 standards. All other requirements might still apply, e.g. manifest, marking, LDR, etc.*

6.	Has the generator accumulated hazardous wastes in excess of (180/270) days without a permit or an extension from the Director? [3745-52-34; ORC §3734-02(E)&(F)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
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*NOTE: SQG's shipping waste to a facility greater than 200 miles away can accumulate on-site for 270 days. [3745-52-34 (E)]*

7.	Is the generator accumulating more than 6,000 kg on site? [3745-52-34(D)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
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*NOTE: 6,000 kg = approximately 27, 55-gallon drums. If the facility is accumulating waste for greater than 180/270 days without an extension/permit or is accumulating greater than 6,000 kg on-site, it is classified as a storage facility and TSD standards apply. Complete applicable TSD checklists.*

8.	Does the generator treat hazardous waste in a:	
	a. Container that meets 3745-66-70 to 3745-66-77?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b. Tank that meets 3745-66-101?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c. Drip pads that meet 3745-69-40 to 3745-69-45?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	d. Containment building that meets 3745-256-100 to 3745-256-102?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

*NOTE: Complete appropriate checklist for each unit.*

*NOTE: If waste is treated to meet LDRs, use LDR checklist.*

**MANIFEST REQUIREMENTS**

9.	Are all hazardous wastes either reclaimed under a contractual agreement as defined in OAC rule 3745-52-20(E), or shipped off-site accompanied by a manifest (U.S. EPA Form 8700-22)? [3745-52-20(A)(1)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
10.	Are wastes reclaimed under a contractual agreement? If so: [3745-52-0(E)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	a. Does the contractual agreement specify the type of waste and frequency of shipment?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

	b.	Is the transport vehicle owned and operated by the reclaimer?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c.	Is a copy of the reclamation agreement kept on-site for at least three years after termination/expiration of the agreement?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: If wastes are reclaimed under a contractual agreement and an answer to questions 10(a) through 10(c) is no, the generator is in violation of 3745-52-20 (A) (B) & (D), 3745-52-22 and 3745-52-23. Even if the waste is being reclaimed under agreement, LDRs still apply. Complete LDR checklist.			
11.		Have items 1 through 20 of each manifest been completed? [3745-52-20(A)(1)] & [3745-52-27(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: U.S. EPA Form 8700-22(A) (the continuation form) may be needed in addition to Form 8700-22. In these situations, items (21) through (35) must also be complete. [3745-52-20(A)(1)]			
12.		Does each manifest designate at least one facility which is permitted to handle the waste? [3745-52-20(B)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: The generator may designate on the manifest one alternative facility to handle the waste in the event of an emergency which prevents the delivery of waste to the primary designated facility. [3745-52-20(C)]			
13.		If the transporter was unable to deliver a shipment of hazardous waste to the designated facility did the generator designate an alternative TSD facility or give the transporter instructions to return the waste? [3745-52-20(D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
14.		Have the manifests been signed by the generator and initial transporter? [3745-52-23 (A) (1) and (2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: Remind the generator that the certification statement they signed indicates: 1) they have properly prepared the shipment for transportation and 2) they have made a good faith effort to minimize their waste generation.			
15.		If the generator received a rejected load or residue, did the generator:	
	a.	Sign item 20 of the new manifest or item 18c of the original manifest? [3745-52-23(F)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	Provide the transporter a copy of the manifest? [3745-52-23(F)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c.	Send a copy of the manifest to the designated facility that returned the shipment with 30 days after delivery of the rejected shipment? [3745-52-23(F)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
16.		If the generator did not receive a return copy of each completed manifest within 60 days of being accepted by the transporter did the generator submit to Ohio EPA, a copy of the manifest with some indication that the generator has not received confirmation of delivery? [3745-52-42(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
17.		Are signed copies of all manifests being retained for at least three years? [3745-52-40]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: A generator who sends a shipment of hazardous waste to a TSD facility with the understanding that the TSD facility can accept and manage the waste and later receives that shipment back as a rejected load or residue may accumulate the waste on-site for <90 days or <180 days depending on the amount of hazardous waste on-site in that calendar month. [3745-52-34(M)]			
NOTE: Waste generated at one location and transported along a publicly accessible road for temporary consolidated storage or treatment on a contiguous property also owned by the same person is not considered "on-site" and manifesting and transporter requirements must be met. To transport "along" a public right-of-way the destination facility has to act as a transfer facility or have a permit because this is considered to be "off-site." For additional information see the definition of "on-site" in OAC rule 3745-50-10.			
<b>PREPAREDNESS AND PREVENTION</b>			
18.		Is an emergency coordinator available at all times (on-site or on-call)? [3745-52-34(D)(5)(a)] <b>Owners</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
19.		Has the following been posted by the telephone: [3745-52-34(D)(5)(b)]	
	a.	Name and telephone number of emergency coordinator?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	b.	Location of fire and spill control equipment, and, if present, fire alarm(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

	c.	Telephone number of local fire department?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
20.		Are employees familiar with waste handling and emergency procedures? [3745-52-34(D)(5)(c)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
21.		Has the facility properly responded to all fires and spills? [3745-52-34(D)(5)(d)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
22.		Is the facility operated to minimize the possibility of fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste? [3745-65-31]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
23.		Does the generator have the following equipment at the facility if it is required due to actual hazards associated with the waste:	
	a.	Internal Alarm system? [3745-65-32(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	Emergency communication device? [3745-65-32(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c.	Portable fire control, spill control and decon equipment? [3745-65-32(C)]?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	d.	Water of adequate volume/pressure per documentation or facility rep? [3745-65-32(D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
24.		Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	a.	Are inspections recorded in a log or summary? [3745-65-33]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
25.		Do personnel have immediate access to an internal alarm or emergency communication device when handling hazardous waste ( <i>unless the device is not required under OAC 3745-65-32</i> )? [3745-65-34(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
26.		If there is only one employee on the premises is there immediate access to a device (ex. phone, hand-held two-way radio) capable of summoning external emergency assistance ( <i>unless not required under OAC 3745-65-32</i> )? [3745-65-34(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
27.		Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
28.		Has the generator attempted to familiarize emergency authorities with possible hazards and facility layout? [3745-65-37(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
29.		Where authorities have declined to enter into arrangements or agreements, has the generator documented such a refusal? [3745-65-37(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<b>SATELLITE ACCUMULATION AREA REQUIREMENTS</b>			
30.		Does the generator ensure that satellite accumulation area(s):	
	a.	Are at or near a point of generation? [3745-52-34(C)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c.	Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	d.	Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	e.	Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	f.	Containers are marked with the words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
31.		Is the generator accumulating hazardous waste(s) in excess of the amounts listed in the preceding question? If so:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	a.	Did the generator comply with 3745-52-34(A)(1) through (4) or other applicable generator requirements within three days? [3745-52-	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

	34(C)(2)]	
b.	Did the generator mark the container(s) holding the excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? [3745-52-34(C)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: The satellite accumulation area is limited to 55 gallons of hazardous waste accumulated from a distinct point of generation in the process under the control of the operator of the process generating the waste (less than 1 quart for acute hazardous waste). There could be individual waste streams accumulated in an area from different points of generation.		
<b>USE AND MANAGEMENT OF CONTAINERS</b>		
32.	Has the generator marked containers with the words "Hazardous Waste?" [3745-52-34(D)(4)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
33.	Is the accumulation date on each container? [3745-52-34(D)(4)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
34.	Are hazardous wastes stored in containers which are:	
a.	Closed (except when adding/removing wastes)? [3745-66-73(A)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
b.	In good condition? [3745-66-71]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
c.	Compatible with wastes stored in them? [3745-66-72]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
d.	Handled in a manner which prevents rupture/leakage? [3745-66-73(B)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: Record location on process summary sheets and photograph the area.		
35.	Is the container accumulation area(s) inspected at least once during the period from Sunday to Saturday? [3745-66-74]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
a.	Are inspections recorded in a log or summary? [3745-66-74]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
36.	Are containers of incompatible wastes stored separately from each other by means of a dike, berm, wall or other device? [3745-66-77(C)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
37.	If the generator places incompatible wastes, or incompatible wastes and materials in the same container, is it done in accordance with 3745-65-17(B)? [3745-66-77(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
38.	If the generator places hazardous waste in an unwashed container that previously held an incompatible waste, is it done in accordance with 3745-65-17(B)? [3745-66-77(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: OAC 3745-65-17(B) requires that the generator treat, store, or dispose of ignitable or reactive waste, and the mixture or commingling of incompatible wastes, or incompatible wastes and materials so that it does not create undesirable conditions or threaten human health or the environment.		
<b>PRE-TRANSPORT REQUIREMENTS</b>		
39.	Does each generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, 3745-52-31 and 3745-52-32(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
40.	Does each container ≤119 gallons have a completed hazardous waste label? [3745-52-32(B)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
41.	Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: Continue with the generator LDR requirements on the next page.		

### GENERATOR LDR REQUIREMENTS

*NOTE: This LDR checklist does not include the requirements for generators that treat to meet LDR standards. If the generator treats, the inspector should use the stand-alone Generator LDR checklist instead of this checklist.*

#### GENERAL REQUIREMENTS

1.	If LDRs do not apply, does the generator have a statement that lists how the HW was generated, why LDRs don't apply and where the HW went? [3745-270-07(A)(7)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
2.	Did the generator determine if the HW/soil must be treated to meet the LDR treatment standard prior to disposal? Generator knowledge or testing may be used. [3745-270-07(A)(1)] If not,	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
a.	Did the generator send the waste to a permitted HW TREATMENT facility? [3745-270-07(A)(1)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

*NOTE: This is done by determining if the HW/soil contains levels of constituents greater than the levels given in its LDR treatment standard in 3745-270-40. However, if a specific treatment method is given in 3745-270-40 for the HW, no determination is required [3745-270-07(A)(1)(b)]. If soil, generator can choose to have soil treated to LDR levels given in 3745-270-49 (alternative treatment levels for soils).*

3.	Does the generator have documentation of how he determined whether the HW/soil meets or does not meet the LDR treatment standard in 2, above? [3745-270-07(A)(6)(a) or 3745-270-07(A)(6)(b)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
4.	Does the generator keep the documentation required in #2, above, on-site for at least three years from the last date the HW/soil was sent on-site/off-site for treatment/disposal? [3745-270-07(A)(8)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
5.	Does the generator generate a listed HW that exhibits a characteristic? If yes,	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
a.	Did the generator determine if the listed HW exhibits a characteristic that is not treated under the LDR treatment standard for the listed HW? [3745-270-09(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

*FOR EXAMPLE: F006 that exhibits the characteristic for silver or K062 that is corrosive, D002. Review LDR treatment standard in 3745-270-40 to determine what constituents the listed HW is treated for.*

6.	Did the generator determine if its characteristic HW contains underlying hazardous constituents that need to be treated? [3745-270-09(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
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*NOTE: This is done by evaluating which underlying hazardous constituents (UHC) are in the HW at levels above the universal treatment standards given in 3745-270-48. This requirement does not apply to high total organic carbon (i.e., contains >10% TOC) D001 wastes or listed HWs.*

*NOTE: Written documentation of this determination is not required.*

7.	Did the generator treat his HW /soil on-site to meet the LDR treatment standard?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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*NOTE: If "Yes" see question #16.*

8.	Did the generator send a one-time LDR notification form to the TSD with the first shipment to that facility? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
a.	If the generator chose not to make the determination of whether his waste must be treated, did he send a notice to the TSD facility with each shipment? [3745-270-07(A)(2)] If so, did the notice include:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
i.	Applicable HW codes?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
ii.	Manifest number of the first shipment to the TSD?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
iii.	A statement that conveys that the HW may or may not be subject to the LDR treatment standards and the TSD must make that determination."?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
9.	Did the generator resubmit the LDR notification form to the TSD when the HW changed or the generator used a new TSD? [3745-270-07(A)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
10.	Does the generator have a copy of the LDR notification form/notice on file? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

	a.	Is the form/notice kept on file for three years after last HW shipped? [3745-270-07(A)(8)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<b>NOTIFICATION FORM</b>			
11.	Does the LDR Notification form contain the following information:		
	a.	Manifest number of the first waste shipment to the TSD? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	b.	Applicable waste codes (includes characteristic codes for a listed HW if applicable)? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	c.	A statement that conveys that the HW is subject to LDRs and must be treated to meet LDR treatment requirements? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	d.	A designation whether the HW is a wastewater or non-wastewater? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: A wastewater contains <1% by wt. total suspended solids (TSS) and <1% by wt. TOC. If you doubt the HW is a wastewater or non-wastewater, the HW can be tested using for example, Standard Methods (SM) 160.2 for TSS, SW-846 method 9060a for TOC.			
	e.	Designation of the waste subcategory when applicable? [3745-270-07(A)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: Subcategories are found on the LDR treatment standards table under the applicable waste code. Not all HWs have subcategories			
	f.	A listing of the underlying hazardous constituents for which a characteristic waste must be treated? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
NOTE: Not required if the waste is high TOC D001 or the TSD tests its treatment residues for all underlying hazardous constituents.			
	g.	If the HW is F001-F005 or F039, did the generator note on the LDR form what solvents or constituents, respectively, the waste contains and must be treated for? [3745-270-07(A)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: Not required if the TSD tests its treatment residues for all underlying hazardous constituents.			
<b>PROHIBITED DILUTION</b>			
12.	Is the HW treated by burning? If "No" go to #15.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
13.	Is the HW a metal-bearing HW?		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: Generally, metal-bearing HWs contain heavy metals above TCLP levels or were listed due to the presence of metals. A list of the restricted metal-bearing HWs is given in the Appendix to 3745-270-03.			
14.	a.	Metal-bearing HWs cannot be incinerated, combusted or, blended and burned for fuel unless <b>one</b> of the following conditions apply. [3745-270-03(c)]	
	i.	Contains > 1% TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	ii.	Contains organic constituents or cyanide at levels greater than the UTS levels?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iii.	Is made up of combustible material e.g., paper, wood, plastic?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iv.	Has a reasonable heating value (e.g., > 5000 Btu)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	v.	Co-generated with a HW that must be combusted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	If all responses to 14 a.i. through 14 a.v. are "No", HW is being improperly treated by dilution, violation of 3745-270-03(C). Is HW being treated by dilution?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
15.	Was the HW treated by wastewater treatment?		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

	a. Is a LDR treatment method, other than DEACT or a numerical value, specified for the waste? [3745-270-03(B) and 3745-270-40(A)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>NOTE: If "Yes", HW is improperly being treated by dilution.</i>		
	b. Does the waste carry the D001 code <u>and</u> contain $\geq 10\%$ TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c. Does the wastewater treatment process include a process to separate/recover the organic phase of the waste?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>NOTE: If the answers to b &amp; c are "yes" and "no", respectively, waste is improperly being treated by dilution and generator is in violation of [3745-270-03(B)] and 3745-270-40(A)(3)].</i>		
<i>NOTE: A list of separation/recovery processes are given in 3745-270-42 under RORG.</i>		