



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor
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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

November 12, 2009

Steve Zehnder
Manager, Plant Engineering & Facilities
Mercy Medical Center
1320 Mercy Drive, NW
Canton, OH 44708

RE: *MERCY MEDICAL CENTER, OHR000014548, STARK COUNTY, COMPLAINT INVESTIGATION #7261, NOTICE OF VIOLATION*

Dear Mr. Zehnder:

On September 24, 2009, Ohio EPA's Division of Hazardous Waste Management (DHWM) conducted a complaint investigation at the Mercy Medical Center (MMC) facility located at 1320 Mercy Drive, NW in Canton, Ohio. MMC is a hospital owned and operated by The Sisters of Charity of St. Augustine Health System and qualifies as a Small Quantity Generator (SQG) of hazardous waste.

The purpose of this inspection was to investigate the allegations stated in the complaint and to determine MMC's compliance with Ohio's hazardous waste laws and regulations as found under the Ohio Revised Code and Ohio Administrative Code ("ORC" and "OAC" respectively). MMC was represented by you and Rick Antenuce while Ohio EPA was represented by me. Ohio EPA's complaint investigation included an inspection of the hazardous waste accumulation areas at the MMC facility and a review of written documentation.

The complaint received by Ohio EPA was based upon a Canton Repository newspaper article which stated the hospital was crushing their spent fluorescent lamps and sending them to a landfill. Ohio EPA's inspection revealed that MMC is manifesting the crushed lamps off-site as a hazardous waste to a permitted facility in Indiana where the crushed lamps are recycled. However, Ohio EPA found multiple hazardous waste violations regarding MMC's management of hazardous waste.

Based on this inspection, Ohio EPA has determined that MMC has violated at least the following state hazardous waste regulations:

1. **Ohio Revised Code (ORC) § 3734.02 (E) and (F) storage of hazardous waste without a facility installation and operation permit:**

MMC generates spent fluorescent lamps, which are crushed using a drum top lamp crusher. The crushed lamps are accumulated in fifty-five gallon open top steel drums and manifested off-site as a hazardous waste (D009) to Lighting Resources LLC, a permitted recycling facility in Indiana. At the time of the September 24, 2009 complaint investigation, Ohio EPA observed at least five (5) full containers of crushed lamps on site. An inspection of the bulb crusher maintenance log and shipping documentation revealed MMC had last shipped the crushed lamps (D009 waste) offsite on August 8, 2008. Since MMC ships the D009 waste to a designated facility in excess of 200 miles away, the facility may accumulate hazardous waste on site for 270 days, as long as it operates as an SQG and does not accumulate more than 6000 kg of hazardous waste on site at any given time. A review of the lamp crusher maintenance log revealed at least two containers of D009 waste had been on site since November 13, 2008, at least forty-five days in excess of the 270 day accumulation time limit. MMC has therefore stored hazardous waste on-site without a hazardous waste facility installation and operation permit.

To demonstrate compliance, MMC must submit to this office documentation demonstrating the containers of hazardous waste which have been on site in excess of 270 days, have been shipped off site. Documentation must include a copy of the hazardous waste manifests and a copy of the applicable Land Disposal Restriction (LDR) form. Furthermore, MMC must submit to this office documentation in the form of photographs demonstrating that said containers of hazardous waste to be shipped off-site have been properly labeled as hazardous waste including an accumulation start date clearly marked on the label.

Since MMC violated ORC § 3734.02(E) and (F), MMC is subject to all applicable general facility standards found in OAC chapters 3745-54 and 55. Additionally, at any time Ohio EPA may assert its right to have MMC begin facility-wide cleanup pursuant to the Corrective Action process under Ohio law.

2. **OAC Rule 3745-52-34(A)(3) Labeling:** *A generator who generates greater than one hundred kilograms but less than one thousand kilograms of hazardous waste in a calendar month may, for one hundred eighty days or less, accumulate and/or conduct treatment of hazardous waste that is generated on-site without an Ohio hazardous waste permit, provided that the generator complies with the requirements of paragraphs (A)(2) and (A)(3) of this rule, rules 3745-65-30 to 3745-65-37, and paragraph (A)(5) of rule 3745-270-07 of the Administrative Code;*
 - A. At the time of this inspection Ohio EPA observed at least five (5) fifty-five gallon steel open head containers of crushed fluorescent lamps which were not labeled with the words "Hazardous Waste" in compliance with OAC Rule 3745-52-34(A)(3).

To demonstrate abatement of this violation, please see Violation #5.

- B. At the time of this inspection, Ohio EPA observed at least seven (7) fifty-five gallon steel top filler containers of D001 waste generated from the on-site laboratories not labeled with the words "Hazardous Waste" in compliance with OAC Rule 3745-52-34(A)(3).

To demonstrate abatement of this violation, please see Violation #5.

- C. At the time of this inspection, Ohio EPA observed at least twenty-eight (28) unlabeled five gallon containers of bench-mark waste generated by the laboratories on site. These containers are consolidated at the time of shipment by Chemical Analytics and shipped out in fifty-five gallon containers. The bench-mark waste was characterized as a hazardous waste by Chemical Analytics on April 1, 2009 (D001, F003). Ohio EPA observed that the containers of bench-mark waste were not labeled with the words "Hazardous Waste" in compliance with OAC Rule 3745-52-34(A)(3).

Ohio EPA discussed with you the labeling requirements of a hazardous waste. A letter submitted to Ohio EPA by Chemical Analytics stated the bench-mark waste had been shipped off site as a non-hazardous waste in the past, prior to April 3, 2009. Ohio EPA strongly recommends MMC label and manage each five gallon container as a hazardous waste until such time as the facility can demonstrate to this office that the bench-mark waste is neither a listed or characteristic waste.

To demonstrate abatement of this violation, please see Violation #5.

3. **OAC Rule 3745-52-34(A)(2) Accumulation Date:** *A generator who generates greater than one hundred kilograms but less than one thousand kilograms of hazardous waste in a calendar month may, for one hundred eighty days or less, accumulate and/or conduct treatment of hazardous waste that is generated on-site without an Ohio hazardous waste permit, provided that the generator complies with the requirements of paragraphs (A)(2) and (A)(3) of this rule, rules 3745-65-30 to 3745-65-37, and paragraph (A)(5) of rule 3745-270-07 of the Administrative Code;*

- A. At the time of this inspection Ohio EPA observed at least five (5) fifty-five gallon steel open head containers of crushed fluorescent lamps which were not labeled with an accumulation start date in compliance with OAC Rule 3745-52-34(A)(2).

To demonstrate abatement of this violation, please see Violation #5.

- B. At the time of this inspection, Ohio EPA observed at least seven (7) fifty-five gallon steel top filler containers of D001 waste generated from the on-site laboratories which were not labeled with an accumulation start date in compliance with OAC Rule 3745-52-34(A)(2).

To demonstrate abatement of this violation, please see Violation #5.

- C. At the time of this inspection, Ohio EPA observed at least twenty-eight (28) unlabeled five gallon containers of bench-mark waste generated by the laboratories on site. These containers are consolidated at the time of shipment by Chemical Analytics and shipped out in fifty-five gallon containers. The bench-mark waste was characterized as a hazardous waste by Chemical Analytics on April 1, 2009 (D001, F003). Ohio EPA observed that none of the containers of bench-mark waste were labeled with an accumulation start date in compliance with OAC Rule 3745-52-34(A)(2).

Ohio EPA discussed with you the labeling requirements of a hazardous waste. A letter submitted to Ohio EPA by Chemical Analytics stated the bench-mark waste had been shipped off site as a non-hazardous waste in the past prior to April 3, 2009. Ohio EPA strongly recommends MMC label and manage each five gallon container as a hazardous waste until such time as the facility can demonstrate to this office that the bench-mark waste is neither a listed or characteristic waste.

To demonstrate abatement of this violation, please see Violation #5.

4. **OAC Rule 3745-66-73(A) Management of containers:** *A container holding hazardous waste shall always be closed during storage, except when it is necessary to add or remove waste.*

- A. At the time of this inspection Ohio EPA observed one grey portable cart containing at least eight open boxes of spent fluorescent lamps located next to the lamp crusher awaiting processing. Since MMC crushes the spent fluorescent lamps and ships them off-site as a D009 hazardous waste, Ohio EPA considers this an open container of hazardous waste.

To demonstrate abatement of this violation, MMC must submit to this office documentation in the form of photographs demonstrating that the spent fluorescent lamps have been processed through lamp crusher and are no longer being accumulated in an open container.

- B. At the time of this inspection, Ohio EPA observed an open bung on a container of hazardous waste (D001) in the hazardous waste accumulation area.

Upon being informed of this violation, MMC immediately closed the container of hazardous waste. Ohio EPA therefore considers this violation abated.

5. **OAC Rule 3745-65-35 Required aisle space:** *The owner or operator shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of the above-mentioned purposes.*

At the time of the September 24, 2009 inspection Ohio EPA observed that MMC was not maintaining proper aisle space in either of the hazardous waste accumulation areas.

To demonstrate abatement of Violations #2, #3 & #5, MMC must submit to this office documentation in the form of photographs demonstrating that each container of hazardous waste being accumulated in each of the hazardous waste accumulation areas is properly labeled with the words "Hazardous Waste", and an accumulation start date. Photographic documentation submitted must demonstrate that each container of hazardous waste is closed and proper aisle space maintained in order to facilitate emergency equipment or spill response. Photographs must clearly show the accumulation date and the words "Hazardous Waste".

6. **OAC Rule 3745-66-74 Inspections:** *The owner or operator must inspect areas where containers are stored, at least weekly, looking for leaks and for deterioration caused by corrosion or other factors. The owner or operator must record inspections in an inspection log or summary.*

At the time of this inspection, MMC was not performing the required weekly inspections of the hazardous waste accumulation area.

To demonstrate abatement of this violation, MMC must begin performing the weekly inspections of the hazardous waste accumulation area immediately and log the inspection in an inspection log or summary. MMC will submit copies of two consecutive weeks of completed inspection log sheets to this office. Please find enclosed example inspection log sheets. Ohio EPA has also provided MMC an electronic copy in MS Word format.

7. **OAC Rule 3745-65-33 Testing and maintenance of equipment:** *All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, must be tested and maintained as necessary to assure its proper operation in time of emergency. The owner or operator must record the inspections in a log or summary.*

At the time of this inspection, MMC was not performing the required inspections of the emergency equipment associated with the hazardous waste accumulation area.

To demonstrate abatement of this violation, MMC must begin performing the inspections of the emergency equipment associated with the hazardous waste accumulation area (spill control supplies, fire control and the emergency communication device) and log the inspections in an inspection log or summary. MMC will submit copies of two completed inspection log sheets to this office. Please find enclosed example inspection log sheets. Ohio EPA has also provided MMC an electronic copy in MS Word format.

8. **OAC Rule 3745-52-34(D)(5)(b) Emergency Information:** *A generator who generates greater than one hundred kilograms but less than one thousand kilograms of hazardous waste in a calendar month may, for one hundred eighty days or less, accumulate and/or conduct treatment of hazardous waste that is generated on-site without an Ohio hazardous waste permit, provided that the generator post the following information next to the telephone:*

- (i) The name and telephone number of the emergency coordinator;*
- (ii) Location of fire extinguishers and spill control material, and, if present, fire alarm(s); and*
- (iii) The telephone number of the fire department, unless the facility has a direct alarm.*

At the time of this inspection, Ohio EPA observed that MMC did not have all the required the emergency information posted by the telephone.

To demonstrate abatement of this violation, MMC must post the required emergency information next to the telephone and submit a copy to this office along with a photograph demonstrating that the information has been posted.

Ohio EPA has the following comment:

1. To facilitate MMC's understanding of its regulatory requirements, Ohio EPA has enclosed the following guidance documents:
 - US EPA's *Guide for Small Businesses; Managing Your Hazardous Waste.*
 - OCAPP's *Small Business Environmental Compliance Self-Assessment Guide.*
 - Ohio EPA DHWM's *Generator Requirement Summary Table.*
 - OCAPP's *Fact Sheet; Identifying Your Hazardous Waste.*
 - OCAPP's *Fact Sheet; Are you Properly Managing Your Hazardous Waste Containers?*
 - OCAPP's *Fact Sheet; Ohio's Universal Waste Rules: Are You Handling Used Lamps Correctly?*

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Enclosed you will find copies of the checklists completed at the time of the inspection. Please submit all of the requested documentation to my attention within thirty (30) days of receipt of this letter demonstrating that all issues have been addressed.

The Ohio EPA strongly encourages pollution prevention as the preferred approach for waste management. The first priority of pollution prevention is to eliminate the generation of wastes and pollutants at the source (*i.e.* source reduction). For those wastes and pollutants that are generated, the second is to recycle or reuse them in an environmentally sound manner. You can benefit economically, help preserve the environment and improve your public image by implementing pollution prevention programs. The Office of Compliance Assistance and Pollution Prevention provides compliance and pollution prevention assistance on environmental issues related to air, land and water. Their web site is: <http://www.epa.state.oh.us/opp/ocapp.html>

The Division of Hazardous 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 have not already, we encourage you to sign-up for this free service. You can find more information at the following Web link: <http://www.epa.state.oh.us/dhwm/listserv.html>.

Failure to list specific deficiencies in this communication does not relieve MMC from the responsibility of complying with all applicable hazardous waste regulations. This letter does not relieve MMC from liability for any past or present violations of the state's hazardous waste laws.

Should you have any questions, please feel free to call me at (330) 963-1181.

Sincerely,



Suzanne Prusnek
Environmental Specialist
Division of Hazardous Waste Management

SP:ddw

Enclosures

ec: Frank Popotnik, DHWM, NEDO, OEPA
Harry Sarvis, DHWM, CO, OEPA

cc: Todd Anderson, Legal, CO
Natalie Oryshkewych, DHWM, NEDO

**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: *Steel toed boots, safety glasses*

GENERAL REQUIREMENTS

1.	Have all wastes generated at the facility been adequately evaluated? [3745-52-11]	Yes <input checked="" type="checkbox"/> No <input 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 other 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 on-site without a permit or at another facility other 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> <i>DOGS Crushed lamps</i>
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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"/>

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	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 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
16.		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: 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.					
PREPAREDNESS AND PREVENTION					
17.		Is an emergency coordinator available at all times (on-site or on-call)? [3745-52-34(D)(5)(a)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
18.		Has the following been posted by the telephone: [3745-52-34(D)(5)(b)]			
	a.	Name and telephone number of emergency coordinator?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
	b.	Location of fire and spill control equipment, and, if present, fire alarm(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
	c.	Telephone number of local fire department?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
19.		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"/>
20.		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"/>
21.		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"/>
22.		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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

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	b.	Emergency communication device? [3745-65-32(B)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
23.		Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33]	Yes <input type="checkbox"/>	No <input checked="" 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 checked="" type="checkbox"/>	N/A <input type="checkbox"/>
24.		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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
25.		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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
26.		Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35]	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
27.		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"/>
28.		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"/>

SATELLITE ACCUMULATION AREA REQUIREMENTS

29.	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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	b.	Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	c.	Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	d.	Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	e.	Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)]	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
30.		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? [3745-52-34(C)(2)]	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
	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.

USE AND MANAGEMENT OF CONTAINERS

31.	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"/>
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32.	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"/>
33.	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"/>
<i>NOTE: Record location on process summary sheets and photograph the area.</i>		
34.	Is the container accumulation area(s) inspected at least weekly? [3745-66-74] Per ORC§1.44(A) "Week" means seven(7) consecutive days.	Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> N/A <input type="checkbox"/>
35.	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"/>
36.	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"/>
37.	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"/>
<i>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.</i>		
PRE-TRANSPORT REQUIREMENTS		
38.	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"/>
39.	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"/>
40.	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"/>

**GENERATOR LDR CHECKLIST
DOES NOT APPLY TO CESQGS**

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 No N/A

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)] Yes No N/A

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 No N/A

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 No N/A

5. Does the generator generate a listed HW that exhibits a characteristic? If yes, Yes No N/A

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 No N/A

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 No N/A

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 No N/A

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 No N/A

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 No N/A

10. Does the generator have a copy of the LDR notification form on file?[3745-270-07(A)(2)] Yes No N/A

a. Is the form kept on file for three years after last HW shipped? [3745-270-07(A)(8)] Yes No N/A

NOTIFICATION FORM

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 No N/A

b. Applicable waste codes (includes characteristic codes for a listed HW if applicable)? [3745-270-07(A)(2)] Yes No N/A

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 No N/A

d. A designation whether the HW is a wastewater or non-wastewater? [3745-270-07(A)(2)]. Yes No N/A

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
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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"/>
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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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
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NOTE: Not required if the TSD tests its treatment residues for all underlying hazardous constituents.

PROHIBITED DILUTION

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"/>
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13.	Is the HW a metal-bearing HW?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
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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 are given in the Appendix to 3745-270-03.

14.	a.	Metal-bearing HWs cannot be incinerated, combusted or, blended and burned for fuel unless <u>one</u> of the following conditions apply. [3745-270-03(c)]	
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	i.	Contains > 1% TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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	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"/>
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	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"/>
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	iv.	Has a reasonable heating value (e.g., > 5000 Btu)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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	v.	Co-generated with a HW that must be combusted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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	b.	If all responses to 14 a.i. through 14 a.v. are ANo@, 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 checked="" type="checkbox"/> N/A <input type="checkbox"/>
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15.	Was the HW treated by wastewater treatment?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
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	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"/>
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NOTE: If Yes, HW is improperly being treated by dilution.

	b.	Does the waste carry the D001 code and contain ≥10% TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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	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"/>
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NOTE: If the answers to b & c are Ayes@ and Ano@, respectively, waste is improperly being treated by dilution and generator is in violation of [3745-270-03(B) and 3745-270-40(A)(3)].

NOTE: A list of separation/recovery processes are given in 3745-270-42 under RORG.

GENERATOR TREATMENT

16.	Does the generator treat to meet LDRs on-site [3745-270-40(A)]?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
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	Did the generator treat his hazardous waste/soil on-site in a tank, container, drip pad or containment building to meet the LDR treatment standard?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
	If "Yes"....complete the rest of the checklist. If "No"...stop...you are done.		
a.	Does the generator have a written waste analysis plan (WAP) that describes the procedures he will follow to treat the HW/soil to the LDR treatment standard? [3745-270-07(A)(5)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
b.	Did the generator use a detailed chemical and physical analysis of the HW/soil in order to develop the WAP? [3745-270-07(A)(5)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
<i>NOTE: This is a laboratory analysis but it does not have to be kept by the generator.</i>			
c.	Does the WAP contain all information necessary to treat the HW/soil to the LDR treatment standard? [3745-270-07(A)(5)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
d.	Does the WAP include the testing frequency of the treated HW/soil to demonstrate that the LDR treatment standard is being met? [3745-270-07(A)(5)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
e.	Does the generator keep the WAP on-site? [3745-270-07(A)(5)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
f.	Is the WAP available for the inspector's review during the inspection? [3745-270-07(A)(5)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
NOTIFICATION FORM FOR GENERATOR TREATMENT			
17.	a.	Contains all information in #11 a-g above and	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	If the treated HW/soil is listed....notification contains the following certification statement: "I certify under penalty of law that I personally have examined and am familiar with the waste, through analysis and testing or through knowledge of the waste, to support this certification that the waste complies with the treatment standards specified in rule 3745-270-40 to 3745-270-49 of the Administrative Code. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	c.	If the treated HW/soil no longer exhibits a characteristic and is no longer a HW, did the generator:	
	i.	Send a one-time notification to the director?[3745-270- 09 (D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	ii.	Maintain a copy of the notice onsite?[3745-270-09(D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iii.	Include in the notification: [3745-270-09(D)(1)(a)]	
		1. Name & address of receiving landfill?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
		2. Description of HW when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
		3. HW code when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
		4. Treatability group when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
		5. Underlying hazardous constituents present when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iv.	Contain the certification statement as required by 3745-70-07(B)(4)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>