



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

November 19, 2007

RE: UNIVERSITY OF AKRON
EPA ID NO. OHD 045 207 552/LQG CEI
EPA ID NO. OHD 987 056 439/SQG CEI
SUMMIT COUNTY
NOV

Ms. Alex Stakleff
Environmental and Occupational Health Specialist
University of Akron
Akron, Ohio 44325-0607

Dear Mr. Stakleff:

On October 31, 2007, I as a representative of the Ohio EPA Division of Hazardous Waste Management, conducted an inspection of the University of Akron facility (the University) in Akron, Ohio. I inspected the facility to determine the University's compliance with Ohio's hazardous waste, universal waste and used oil laws and regulations as found in Chapter 3734 of the Ohio Revised Code (ORC) and Chapter 3745 of the Ohio Administrative Code (OAC). The University was represented by you and Mark Deering.

The inspection included reviews of facility records, interviews with facility personnel and a facility walk through. Additional information was provided by a letter from Mark Deering dated November 2, 2007 and via your email dated November 13, 2007. The results of these reviews are discussed below.

The University holds two EPA ID numbers for the Akron campus. One of the numbers (OHD 045 207 552 operating as a LQG) is for all portions of the campus except for the buildings near the Grounds Department which has a separate number (OHD 987 056 439 operating as a SQG) reportedly because of concerns with transporting wastes on and/or across public streets.

Based on the facility documents reviewed and observations made during the facility walk-through, Ohio EPA has determined that the University has violated the following state hazardous waste regulation:

1. **OAC Rule 3745 65-52(D) Contingency plan must list names, addresses, and phone numbers of emergency coordinators and be kept current. (Applies to OHD 045 207 552)**

One of the individuals on the list of emergency coordinators in the contingency plan was not current.

To return to compliance the facility must:

- Promptly update the list of emergency coordinators in the contingency plan.
- Distribute copies of the revised contingency plan to the local fire department, police or law enforcement department, and hospital as required in OAC Rule 3745 65 53(B).
- Provide documentation to this office within 45 days of receipt of this letter that the preceding actions have been completed.

2. **OAC Rule 3745 52-34(C)(2) Within three days of a SQG filling a 55 gallon satellite container, the container must be moved to the 180/270 day accumulation area. (Applies to OHD 987 056 439)**

One 55 gallon container of crushed fluorescent bulbs with the date of 10-19-07 on the hazardous waste label was observed in the Bel-Aire building near the bulb crusher. The date of 10-19-07 was apparently the date that the container was full. (Another container was placed on the crusher.) The full container should have been moved to a 180/270 day accumulation area by 10-22-07.

To return to compliance the facility must:

- Promptly move the container to the 180/270 day accumulation area.
- Provide a photo of this container in the 180/270 day accumulation area to this office within 45 days of receipt of this letter with a written explanation of what procedures have been implemented to prevent future violations of this rule.

3. **OAC Rule 3745 273-14(A) Small Quantity Handler must label universal waste batteries/containers. (Applies to OHD 045 207 552)**

Several boxes of batteries to be managed as universal waste were located in the 90 day hazardous waste accumulation area near Knight Hall. None were labeled with any of the acceptable words in OAC Rule 3745 273-14(A).

To return to compliance the facility must:

- Promptly label all containers of universal waste lamps with one of the acceptable wordings in OAC Rule 3745 273-14(A).
- Provide a photo of a representative container so labeled to this office within 45 days of receipt of this letter with a written explanation of what procedures have been implemented to prevent future violations of this rule.

4. **OAC Rule 3745 273-14(E) Small Quantity Handler must label each lamp or container holding universal waste lamp. (Applies to OHD 987 056 439)**

Approximately 100 boxes of used fluorescent bulbs to be managed as universal waste were located in the Bel-Aire Building. None were labeled with any of the acceptable words in OAC Rule 3745 273-14(E).

To return to compliance the facility must:

- Promptly label all containers of universal waste lamps with one of the acceptable wordings in OAC Rule 3745 273-14(E).
- Provide a photo of a representative container so labeled to this office within 45 days of receipt of this letter with a written explanation of what procedures have been implemented to prevent future violations of this rule.

5. **OAC Rule 3745 273-13(D)(1) Small Quantity Handler must store containers of universal waste lamps closed. (Applies to OHD 987 056 439)**

Approximately 100 boxes of used fluorescent bulbs to be managed as universal waste were located in the Bel-Aire Building. Many of these containers were not closed.

To return to compliance the facility must:

- Promptly close all containers of universal waste lamps as required by OAC Rule 3745 273-14(D)(1).
- Provide a photo of a representative closed container to this office within 45 days of receipt of this letter with a written explanation of what procedures have been implemented to prevent future violations of this rule.

6. **OAC Rule 3745 279-22(C)(1) Used oil containers must be labeled with the words "Used Oil". (Applies to OHD 987 056 439)**

A partially full drum of used oil in Energy Systems was labeled "Waste Oil" instead of "Used Oil". This has already been abated; no additional action is required to return to compliance.

Enclosed you will find a copy of the checklists completed for the inspection.

Other Issues

Regulatory status of Proposed New Area for Bulb Crusher.

During the inspection the facility asked whether the new area being considered for the bulb crusher in the 32 South College Street Building was acceptable, the concern being whether it is part of the same facility as the rest of the campus. The crusher is currently located in the Bel-Aire Building, but that building is to be demolished. The University is advised to submit the question(s) in writing together with a description of the proposed activities and a detailed map indicating contiguous property under common ownership to:

Jeff Mayhugh
Manager of the Regulatory Services Unit
Ohio EPA - DHWM
PO Box 1049
Columbus, Ohio 43216-1049

Mr. Mayhugh's phone number is (614) 644-2950.

Other Information

A list of Ohio EPA DHWM guidance documents can be found at the following internet site: <http://www.epa.state.oh.us/dhwm/guidancedocuments.html>. You can find copies of Ohio's hazardous waste laws and regulations at our web page at: <http://www.epa.state.oh.us/dhwm/Law&Regs.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 haven't 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>.

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NOVEMBER 19, 2007
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The OEPA 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 (source reduction). For those wastes and pollutants that are generated, the second priority is to recycle or reuse them in an environmentally sound manner. You can benefit economically, help preserve the environment and improve your public image through pollution prevention. More information about pollution prevention can be found on our website at <http://www.epa.state.oh.us/ocapp/ocapp.html>.

Should you have any questions regarding this letter, please contact me at (330) 963-1165.

Sincerely,



Neil J. Wasilk
Environmental Specialist
Division of Hazardous Waste Management

NJW:ddw

Enclosure

cc: Natalie Oryshkewych, Ohio EPA, DHWM, NEDO
Harry Sarvis, Ohio EPA, DHWM, CO

NOTICE:

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your facility from its obligation to comply with all applicable regulations.

University of Akron
Akron, Ohio 44325- 0607

PROCESS DESCRIPTION SECTION

Give a general process description (include all processes at the facility)

The University is an LQG for EPA ID NO. OHD 045 207 552 for the Main Quad portion of the campus. This portion of the campus includes the Knight Chemical Laboratory, biology department, Goodyear Polymer Center and engineering. Two 90 day accumulation areas are present: one in the basement of Knight Lab used primarily for liquid wastes and the second in a detached building located near Knight Lab used primarily for wastes that are solids. Universal waste batteries are also accumulated in the detached building.

A tracking form is attached or near sat. accumulation containers to identify contents when they are in the sat. accumulation areas. This tracking form accompanies hazardous wastes when they are taken from sat. accumulation areas into the 90-day areas. The tracking forms are attached to or remain near the container. The same tracking form system is used in both the LQG and SQG sections of the campus.

The buildings near the Grounds Department constitute an SQG with the I.D. number OHD 987 056 439. These buildings have a separate I.D. number because of concerns with transporting wastes on and/or across public streets. Currently all the used fluorescent bulbs from the campus are transported to the Bel-Aire Building which is one of the buildings included in this the SQG I.D. number.

Chemical Analytics is contracted to perform lab packing.

Waste generation activities/areas include:

- Print shop.
- Rifle range.
- Art department. Waste includes developer from photography. Paint wastes from set production.
- Vehicle maintenance shop for maintaining small vehicles owned by the University.
- Building maintenance shops
- Chemical and biology labs. Laboratory wastes from various campus laboratories including chemistry and biology teaching and research labs. Hazardous wastes from those sources are collected in satellite accumulation containers in the laboratories. When full the containers are moved to a 90-day accumulation area.
- Spent fluorescent bulbs.
- Ni-Cad, lead acid and Lithium batteries.
- Old computer monitors reportedly recycled through a jail or prison-recycling program. Not handled by environmental group. No shipping records could be found for these shipments.

- Heat is provided by the Energy Systems dept of the university.

Walk-Through Observations.

Print Shop. Laser and offset printing. Reportedly no chlorinated solvents used in the print shop. Rags from printer cleanup picked up and evaluated by EOHS.

Photo Dept. Uses laser film. Sewers in this room go to the dedicated sump which eventually goes to Akron sewers; personnel were not familiar for reason for sump. Subsequent to walk-through, University plumbing shop opened the sump. It was found to be an acid neutralization sump filled with limestone and that the stones are clean.

Also subsequent to the walk-through, University personnel determined that a small amount of silver is present in the form of silver halide present in the graphics arts film and that some is "washed" off during the "fixing" process of film development. Although it appeared that the current practice of discharge to the Akron sewers is acceptable under the hazardous waste rules (i.e. meets RCRA domestic sewage exclusion), the University indicated that they would in the future capture all fixing waste and dispose of it with our hazardous waste stream. Discharge to municipal sewers is subject to approval by city of Akron.

Grounds Dept.

The 180-day accumulation area is located here. One 55-gallon drum with date of 6-12-07 was in the 180-day accumulation area. Inspections on same form as 90 LQG accumulation areas.

Small vehicles are serviced in the Vehicle Maintenance building. Vehicles that can use public roads are sent off-site for oil changes and maintenance. Part washer is present; but appears to be used infrequently. Used oil is held in an aboveground tank. Label OK on tank. Drum with used oil filters that are managed as used oil, not labeled.

Bulbs from the entire campus are accumulated in Bel-Aire Building. Reportedly about 80-90% is recycled as universal waste and 10-20% are crushed and managed as hazardous waste. Crushed bulbs are primarily those with odd sizes and/or shapes.

Paint Shop.

Has a solvent cleaner for paint applicators and equipment. When used fluid is removed, transferred to a drum for pick-up by EOHS.

Energy Systems

Partially full drum of used oil labeled Waste Oil instead of Used Oil.

E. J. Thomas Hall. No longer has a paint shop.

Guzzeta Hall. No oil based paints used in set construction.

Knights Chemistry

Two 90 day accumulation areas are present: one in the basement of Knight Lab which is used primarily for liquid wastes and the second in a detached building located near Knight Lab, which is used primarily for wastes that are solids. Universal waste batteries are also accumulated in the detached building. Would benefit from clearer procedures for dating of materials when they are placed in the 90-day areas.

Inspection logs available. Logs would benefit from clearer descriptors of what is being inspected, especially for SQG 180 day accumulation area.

Goodyear Polymer Center. Two 5-gallon Sat. Acc. Containers in Lab 712 had the spring-loaded lids held open.

Folk Hall.

Paint usage appeared to be all latex paints. Ceramics department had one glaze with chrome oxide as a constituent. Reportedly none of the glaze is discarded; additional glaze slurry is prepared in the same container.

Rifle range. Did not visit firing range. Reportedly spent projectiles are recycled as scrap metal. Other wastes are reportedly evaluated and managed as haz waste when fail TCLP for lead.

WASTE ACTIVITIES AND P2 SUMMARY SECTION

For each of the processes listed above that generate a waste give the following information: (1) name of process generating waste, (2) name or description of waste generated (e.g. sludge, solvent, ash, used oil, spent lamps, etc.), (3) EPA waste codes, if applicable, (4) quantity generated per month, (5) type of accumulation (container, tank, etc.) (6) waste accumulation location in facility, (7) type of on-site treatment (if used), (8) name of off-site management facility and type of waste management activity occurring there, (9) Current P2 activities, and (10) P2 opportunities

REMARKS-GENERAL INFORMATION

Regulatory/Enforcement History (if applicable):

Additional P2 remarks and information:

Would this facility be interested in a P2 assessment?

*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 or www.epa.state.oh.us/ocapp/ocapp.html

Other:

**LARGE QUANTITY GENERATOR REQUIREMENTS
COMPLETE AND ATTACH A PROCESS DESCRIPTION SUMMARY**

Facility Name: UNIVERSITY OF AKRON

Facility Hazardous Waste ID#: OH 045 207 552 Date of CEI: 10-31-07

CESQG: <100Kg. (Approximately 25-30 gallons) of waste in a calendar month.
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] Yes No N/A
- 2 Are records of waste determinations being kept for at least 3 years? [3745-52-40(C)] Yes No N/A
- 3 Has the generator obtained a U.S. EPA identification number? [3745-52-12] Yes No N/A
- 4 Were annual reports filed with Ohio EPA on or before March 1st? [3745-52-41(A)] Yes No N/A
- 5 Are annual reports kept on file for at least 3 years? [3745-52-40 (B)] Yes No N/A
- 6 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 No N/A
- 7 Has the generator disposed of hazardous waste **on-site without a permit** or at another facility **other** than a facility authorized to dispose of the hazardous waste? [ORC 3734.02(E) & (F)] Yes No N/A
- 8 Does the generator accumulate hazardous waste? Yes No N/A
- 9 Has the generator accumulated hazardous waste on-site in excess of 90 days without a permit or an extension from the director ORC §3734.02 (E) & (F)? Yes No N/A
- 10 Does the generator treat hazardous waste in a: [ORC 3734.02(E)&(F)]
 - a. Container that meets 3745-66-70 to 3745-66-77? Yes No N/A
 - b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97 (C) and Yes No N/A
 - c. Drip pads that meet 3745-69-40 to 3745-69-45? Yes No N/A
 - d. Containment building that meets 3745-256-100 to 3745-256-102? Yes No N/A

- 11 Does the generator export hazardous waste? If so: Yes No N/A
- a. Has the generator notified U.S. EPA of export activity? [3745-52-53(A)] Yes No N/A
- b. Has the generator complied with special manifest requirements? [3745-52-54] Yes No N/A
- c. For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55] Yes No N/A
- d. Has an annual report been submitted to U.S. EPA? [3745-52-56] Yes No N/A
- e. Are export related documents being maintained on-site? [3745-52-57(A)] Yes No N/A

MANIFEST REQUIREMENTS

12 Have all hazardous wastes shipped off-site been accompanied by a manifest? (U.S. EPA Form 8700-22) [3745-52-20(A)] Yes No N/A

13 Have items (1) through (20) of each manifest been completed? [3745-52-20(A)] Yes No N/A

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 completed. [3745-52-20(A)]

14 Does each manifest designate at least one facility which is permitted to handle the waste? [3745-52-20(B)] Yes No N/A

NOTE: The generator may designate on the manifest one alternate 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)].

15 If the transporter was unable to deliver a shipment of hazardous waste to the designated facility did the generator designate an alternate TSD facility or give the transporter instructions to return the waste? [3745-52-20(D)] Yes No N/A

16 Have the manifests been signed by the generator and initial transporter? [3745-52-23(A)(1) & (2)] Yes No N/A

NOTE: Remind the generator that the certification statement they signed indicates: 1) they have properly prepared the shipment for transportation and 2) they have a program in place to reduce the volume and toxicity of the waste they generate.

17 If the generator did not receive a return copy of each completed manifest within 35 days of the waste being accepted by the transporter did the generator contact the transporter and/or TSD facility to check on the status of the waste? [3745-52-42(A)(1)] Yes No N/A

18 If the generator has not received the manifest within 45 days, did the generator file an exception report with Ohio EPA? [3745-52-42(A)(2)] Yes No N/A

19 Are signed copies of all manifests and any exception reports being retained for at least three years? [3745-52-40] Yes No N/A

PERSONNEL TRAINING

20 Does the generator have a training program which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to their positions? [3745-65-16(A)(2)] Yes No N/A

21 Does the personnel training program include instructions to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment and emergency systems (where applicable)? [3745-65-16(A)(3)(a-f)] Yes No N/A

22 Is the personnel training program directed by a person trained in hazardous waste management procedures? [3745-65-16(A)(2)] Yes No N/A

23 Do new employees receive training within six months after the date of hire (or assignment to a new position)? [3745-65-16(B)] Yes No N/A

24 Does the generator provide annual refresher training to employees? [3745-65-16(C)] Yes No N/A

25 Does the generator keep records and documentation of: [3745-65-16(D)] Yes No N/A

a. Job titles? [3745-65-16(D)(1)] *TRAINING PROGRAM COORDINATOR ALL EHS TECHNICAL STAFF.* Yes No N/A

b. Job descriptions? [3745-65-16(D)(2)], Yes No N/A

c. Type and amount of training given to each person? [3745-65-16(D)(3)], Yes No N/A

d. Completed training or job experience required? [3745-65-16(D)(4)], Yes No N/A

26 Are training records for current personnel kept until closure of the facility and are training records for former employees kept for at least three years from the date the employee last worked at the facility: [3745-65-16(E)] Yes No N/A

Job Performed

Name of Employee

Date Trained

<u>Job Performed</u>	<u>Name of Employee</u>	<u>Date Trained</u>

CONTINGENCY PLAN

27 Does the owner/operator have a contingency plan to minimize hazards to human health or the environment from fires, explosions or any unplanned release of hazardous waste? [3745-65-51(A)] Yes No N/A

28 Does the plan describe the following:

a. Actions to be taken in response to fires, explosions or any unplanned release of hazardous waste [3745-65-52(A)]? Yes No N/A

b. Arrangements with emergency authorities [3745-65-52(C)]. Yes No N/A

c. A current list of names, addresses and telephone numbers (office and home) of all persons qualified to act as emergency coordinator? [3745-65-52(D)] ONE PERSON NOT CURRENT. Yes No N/A

d. A list of all emergency equipment, including: location, a physical description and brief outline of capabilities? [3745-65-52(E)] Yes No N/A

e. An evacuation plan for facility personnel where there is possibility that evacuation may be necessary? [3745-65-52(F)] Yes No N/A

NOTE: If the facility already has a "Spill Prevention, Control and Counter measures Plan" under CFR Part 112 or 40 CFR Part 1510, or some other emergency plan, the facility can amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with OAC requirements. [3745-65-52(B)]

29 Is a copy of the plan (plus revisions) kept on-site and been given to all emergency authorities that may be requested to provide emergency services? [3745-65-53 (A) & (B)] Yes No N/A

30 Has the generator revised the plan in response to rule changes, facility, equipment and personnel changes, or failure of the plan? [3745-65-54] Yes No N/A
SHE Q. 28 (C).

31 Is an emergency coordinator available at all times (on-site or on-call)? [3745-65-55] Yes No N/A

NOTE: The emergency coordinator shall be thoroughly familiar with: (a) all aspects of the facility's contingency plan; (b) all operations and activities at the facility; (c) the location and characteristics of waste handled; (d) the location of all records within the facility; (e) facility layout; and (f) shall have the authority to commit the resources needed to implement provisions of the contingency plan.

- 39 Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35] Yes No N/A
- 40 Has the generator attempted to familiarize emergency authorities with possible hazards and facility layouts? [3745-65-37(A)] Yes No N/A
- 41 Where authorities have declined to enter into arrangements or agreements, has the generator documented such a refusal? [3745-65-37(B)] Yes No N/A

SATELLITE ACCUMULATION AREA REQUIREMENTS

- 42 Does the generator ensure that satellite accumulation area(s):
- a. Are at or near a point of generation? [3745-52-34(C)(1)] Yes No N/A
 - b. Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)] Yes No N/A
 - c. Do not exceed one quart of acutely hazardous waste at anyone time? [3745-52-34(C)(1)] Yes No N/A
 - d. Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)] Yes No N/A
TWO 5-GALLON CONTAINERS IN LAB 712 IN GOODYEAR POLYMER CENTER HAD LIDS LOCKER OPEN
 - e. Containers are marked with words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)] Yes No N/A
ON SHEETS STORED NEAR OR ATTACHED TO CONTAINERS
- 43 Is the generator accumulating hazardous waste(s) in excess of the amounts listed in the preceding question? If so:
- 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 No N/A
 - b. Did the generator mark the container(s) holding excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? [3745-52-34(C)(2)] Yes No N/A
 - c. Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)] Yes No N/A

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.

EMERGENCY PROCEDURES

- 32 Has there been a fire, explosion or release of hazardous waste or hazardous waste constituents since the last inspection? If so: Yes No N/A
- a. Was the contingency plan implemented? [3745-65-51(B)] Yes No N/A
- b. Did the facility follow the emergency procedures in 3745-65-56(A) through (H)? Yes No N/A
- c. Did the facility submit a report to the Director within 15 days of the incident as required by 3745-65-56(J)? Yes No N/A

NOTE: OAC 3745-65-51(b) requires that the contingency plan be implemented immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents, which could threaten human health and the environment.

PREPAREDNESS AND PREVENTION

- 33 Is the facility operated to minimize the possibility of fire, explosion, or any unplanned release of hazardous waste? [3745-65-31] Yes No N/A
- 34 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 No N/A
- b. Emergency communication device? [3745-65-32(B)] Yes No N/A
- c. Portable fire control, spill control and decon equipment? [3745-65-32(C)] Yes No N/A
- d. Water of adequate volume/pressure? [3745-65-32(D)] (per facility rep) Yes No N/A
- NOTE: Verify that the equipment is listed in the contingency plan.
- 35 Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33] Yes No N/A
- 36 Are emergency equipment tests (inspections) recorded in a log or summary? [3745-65-33] Yes No N/A
- 37 Do personnel have immediate access to an internal alarm or emergency communication device when handling hazardous waste (unless the device is not required under 3745-65-32)? [3745-65-34(A)] Yes No N/A
- 38 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? (Unless not required under 3745-65-34(B)) [3745-65-34(B)] Yes No N/A

USE AND MANAGEMENT OF CONTAINERS IN <90 DAY ACCUMULATION AREAS

44 Has the generator marked containers with the words "Hazardous Waste?" [3745-52-34(A)(3)] Yes No N/A

45 Is the accumulation date on each container? [3745-52-34(A)(2)] Yes No N/A

46 Are hazardous wastes stored in containers which are:

a. Closed (except when adding/removing wastes)? [3745-66-73(A)] Yes No N/A

b. In good condition? [3745-66-71] Yes No N/A

c. Compatible with wastes stored in them? [3745-66-72] Yes No N/A

d. Handled in a manner which prevents rupture/leakage? [3745-66-73(B)] Yes No N/A

NOTE: Record location on process summary sheets and photograph the area.

47 Is the container accumulation areas(s) inspected weekly? [3745-66-74] Per ORC§1.44(A) "Week" means seven 7 consecutive days. Yes No N/A

a. Are inspections recorded in a log or summary? [3745-66-74] Yes No N/A

48 Are containers of ignitable or reactive wastes located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] Yes No N/A

49 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 No N/A

50 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 No N/A

51 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 No N/A

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.

52 If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] Yes No N/A

NOTE: Please provide a description of the unit and documentation provided by the generator to demonstrate that closure was completed in accordance with the closure performance standards. If the generator has closed a <90 day tank, closure must also be completed in accordance with OAC 3745-66-97 (except for paragraph C of this rule). [3745-52-34]

PRE-TRANSPORT REQUIREMENTS

- 53 Does the 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 No N/A
CONTRACTOR UNDER UJA OVERSIGHT.
- 54 Does each container <110 gallons have a completed hazardous waste label? [3745-52-32(B)] Yes No N/A
- 55 Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33] Yes No N/A

LDR CHECKLIST

GENERAL LDR REQUIREMENTS

1. Has the generator adequately evaluated all wastes to determine if they are restricted from land disposal? [3745-270-07(A)(1)] If so: Yes No N/A RMK#
- a. For determinations based solely on knowledge of the waste: Is supporting data retained on-site? [3745-270-07(A)(6)] Yes No N/A RMK#
- b. For determinations based upon analytical testing: Is waste analysis data retained on-site? [3745-270-07(A)(6)] Yes No N/A RMK#
2. Has the generator determined each EPA hazardous waste code applicable to the waste? [3745-270-07(A)(2) see Table 1] Yes No N/A RMK#
3. Has the generator determined the correct "treatability group(s)" (e.g., wastewater, non-wastewater, etc.)? [3745-270-07(A), Table 1] Yes No N/A RMK#
4. Does the generator generate a characteristic hazardous waste? If so: Yes No N/A RMK#
- a. Have all underlying hazardous constituents (UHCs) been identified? [3745-270-09(A)] Yes No N/A RMK#

NOTE: If the waste is D001 non-wastewater treated by CMBST, RORGS, POLYM in Table 1 of Rule 3745-270-42 UHCs do not need to be identified.

5. Does the generator generate listed waste(s) which also exhibit hazardous characteristics? [3745-270-09] If so: Yes No N/A RMK#
- a. Has the generator also identified the appropriate treatment standard(s) for the constituent(s) which cause the waste to exhibit a characteristic? [3745-270-09(A)] Yes No N/A RMK#

NOTE: The generator is not required to identify the treatment standard for the characteristic if the listing covers the associated characteristic (e.g., a F019/D007 hazardous waste - F019 being listed due to chromium content and D007 being the characteristic waste code for chromium). [See OAC Rule 3745-270-09(B)]

6. Has the generator correctly determined if restricted wastes meet or do not meet treatment standards? [3745-270-07(A)(1)] Yes No N/A RMK#

NOTE: Wastes with EPA hazardous waste numbers K174 and K175 (chlorinated aliphatic wastes) have specific requirements in rule 3745-270-33. Waste with EPA hazardous waste numbers K176, K177 and K178 (inorganic chemical wastes) have specific requirements in rule 3745-270-36.

7. Does the owner/operator ensure that restricted wastes or treatment residues are not diluted as a method of achieving/circumventing LDR treatment standards? [3745-270-03] Yes No N/A RMK#

NOTE: A generator may dilute a waste (that is hazardous only because it exhibits a characteristic) in a treatment system that discharges to waters of the State pursuant to an NPDES permit (§402 of CWA), that treats waste in a CWA equivalent treatment system, or that treats waste for the purposes of pre-treatment requirements under §307 of CWA, unless a method other than DEACT is specified or the waste is a D003 reactive cyanide wastewater or non-wastewater.[3745-270-03(B)]

8. Is combustion of any of the wastes identified in the Appendix to Rule 3745-270-03 occurring without meeting one or more of the criteria under Rule 3745-270-03(C) upon generation or after treatment? [3745-270-03(C)] Yes No N/A RMK#

NOTE: In other words, is combustion a legitimate treatment method.

9. Has the generator added iron to lead-containing hazardous waste in order to achieve LDR treatment standards for lead? [3745-270-03(D)] Yes No N/A RMK#

10. Does the facility have a case-by-case extension to the effective date to land dispose of hazardous waste?[3745-270-05] If so: Yes No N/A RMK#

a. The facility can dispose of hazardous waste in a on-site landfill or surface impoundment.[3745-270-05] Yes No N/A RMK#

11. Does the facility have an extension to allow for a restricted waste to be land disposed?[3745-270-06] If so: Yes No N/A RMK#

a. The facility can land dispose of the waste. [3745-270-06] Yes No N/A RMK#

12. Does the facility treat wastes that are otherwise prohibited from land disposal, in a surface impoundment?
If so:

Yes ___ No N/A ___ RMK# ___

a. Has the facility complied with 3745-270-04?

Yes ___ No N/A RMK# ___

REMARKS

NOTIFICATION AND CERTIFICATION REQUIREMENTS

13. If a generator's waste or contaminated soil does not meet the treatment standards, does the generator have the paperwork required in Column A of Table 1 of 3745-270-07? [3745-270-07(A)(2)] Yes No N/A RMK# _____
14. If a generators' waste or contaminated soil meets the treatment standard at the original point of generation, does the generator have the paperwork required in Column B of Table 1 of 3745-270-07? [3745-270-07(A)(3)] Yes No N/A RMK# _____
15. If a generators' waste is exempt (under 3745-270-05, 3745-270-06, national capacity or case-by-case variance, etc.) does the generator have the paperwork required in Column C of Table 1 of 3745-270-07? [3745-270-07(A)(4)] Yes No N/A RMK# _____
16. If a generator manages a lab pack containing hazardous waste using the alternative treatment standard in 3745-270-42, does the generator have the paperwork required in Column D of Table 1 of 3745-270-07? [3745-270-07(A)(9)] Yes No N/A RMK# _____
17. Does the generator produce a waste that is hazardous waste from the point of generation, but subsequently excluded from regulation under OAC 3745-51-02 through 3745-51-06? [3745-270-07(A)(7)] If so: Yes No N/A RMK# _____
- a. Is a one-time notice placed in the facility's file stating such generation, subsequent exclusion or exemption, and disposition of the wastes? [3745-270-07(A)(7)] Yes No N/A RMK# _____

NOTE: Examples include hazardous wastes discharged to a POTW or to a surface water under a NPDES permit.(See 270-07(A)(7))

18. Does the generator retain on-site a copy of all notices, certifications, demonstrations and waste analysis data for at least three years from the last shipment of waste sent off-site? [3745-270-07(A)(8)] Yes No N/A RMK# _____

REMARKS

GENERATORS TREATING HAZARDOUS WASTE

1. Is treatment of hazardous waste occurring to meet the treatment standards in 3745-270-40? Yes ___ No N/A ___ RMK# ___
2. If so, does the generator have a waste analysis plan containing the following requirements? [3745-270-07(A)(5)] Yes ___ No N/A ___ RMK# ___
- a. A detailed chemical and physical analysis of a representative sample of the wastes being treated? [3745-270-07(A)(5)(a)] Yes ___ No N/A ___ RMK# ___
- b. All information necessary to treat the waste(s) in accordance with the requirements of 3745-270, including the selected frequency? [3745-270-07(A)(5)(a)] Yes ___ No N/A ___ RMK# ___
3. Is the WAP on-site in the facility's files and available to inspectors? [3745-270-07(A)(5)(b)] Yes ___ No N/A ___ RMK# ___
4. Has the generator followed their WAP [3745-270-07(A)(5)]? Yes ___ No N/A ___ RMK# ___
5. Have the treated wastes met the applicable treatment standards in 3745-270-40? Yes ___ No N/A ___ RMK# ___
- NOTE: If the waste is a characteristic waste, which has been treated to render it non hazardous and subsequently sent to a solid waste landfill, proceed to question 7 & 8.**
6. Has the generator sent a notification and certification with the initial shipment of waste?[3745-270-07(A)(5)(c)] Yes ___ No N/A ___ RMK# ___
7. Does each notification/certification form completed, contain the information found in Table 1 of 3745-270-07? [3745-270-07(A)(5)(c)] Yes ___ No N/A ___ RMK# ___
8. Has the generator, who is treating a characteristic waste, submitted a notification and certification to the director which contains the following:
- a. Name and address of the facility receiving the waste? [3745-270-09(D)(1)(a)] Yes ___ No N/A ___ RMK# ___
- b. A description of the waste, including EPA hazardous waste codes and treatability group, and UHCs? [3745-270-09(D)(1)(b)] Yes ___ No N/A ___ RMK# ___

NOTE: If the waste will be treated and monitored for all UHCs then they do not need to be listed on the notice.

9. Has the process/operation generating the waste or the solid waste landfill facility changed? If so:

Yes ___ No ___ N/A ___ RMK# ___

a. Has the notification and certification been updated in the generators and treaters files? [3745-270-09(D)]

Yes ___ No N/A ___ RMK# ___

b. Has the director been notified of such changes? [3745-270-09(D)]

Yes ___ No N/A ___ RMK# ___

NOTE: The director need only be notified on an annual basis but no later than December 31.

10. Is the facility treating contaminated soil using the alternative treatment standards in 3745-270-49? If so:

Yes ___ No ___ N/A ___ RMK# ___

a. Has the facility treated the contaminated soil to less than 10 times the Universal Treatment Standards or has a 90% reduction in the total constituent concentrations occurred? [3745-270-49 (C)]

Yes ___ No N/A ___ RMK# ___

11. Does each notification/certification form completed, contain the information found in Table1? [3745-270-07(A)(3)]

Yes ___ No N/A RMK# ___

NOTE: If the waste will be treated and monitored for all constituents, there is no need to put them all on the LDR notice.

REMARKS

HAZARDOUS DEBRIS

1. Does the material in question meet the definition of hazardous debris as defined in rule 3745-270-02(A)(3)?
Yes ___ No ___ N/A ___ RMK# ___
2. Is the hazardous debris being treated to the waste specific treatment standard in 3745-270-40 to 3745-270-49? (If yes, use the generator checklist.)
Yes ___ No ___ N/A ___ RMK# ___
3. Is the hazardous debris being treated by the alternative treatment standards in 3745-270-45? If so:
Yes ___ No ___ N/A ___ RMK# ___
- a. Has the debris or mixtures of debris been treated for each contaminant subject to treatment (toxicity, listed waste and cyanide reactive debris) using one or more of the treatment technologies found in Table 1 in 3745-270-45? [3745-270-45(A)]
Yes ___ No N/A ___ RMK# ___
- NOTE: If immobilization has been used in a treatment train, it must be the last treatment technology used.**
4. Was the hazardous debris a listed waste treated by an immobilization technology in Table 1? [3745-270-45(A)(1)] If so:
Yes ___ No ___ N/A ___ RMK# ___
- a. Was immobilization the last treatment technology used? [3745-270-45(A)(3)]
Yes ___ No N/A ___ RMK# ___
5. Is the waste a PCB waste under 40 CFR Part 761? If so:
Yes ___ No ___ N/A ___ RMK# ___
- a. Has the waste been treated to the most stringent standard in 40 CFR 761 or 3745-270-45? [3745-270-45(A)(5)]
Yes ___ No N/A ___ RMK# ___
6. Has the residue from the treatment of hazardous debris been disposed of in accordance with 3745-270-40 to 3745-270-49? [3745-270-45(D)]
Yes ___ No N/A ___ RMK# ___
7. Does the owner/operator of a treatment facility that claims the debris is excluded from regulation as a hazardous waste under 3745-51-03(F)(1) maintain the following information?
Yes ___ No ___ N/A ___ RMK# ___
- a. Records of all inspections, evaluations, and analyses of treated debris? [3745-270-07(D)(3)(a)]
Yes ___ No N/A ___ RMK# ___
- b. Records of key operating parameters of the treatment unit? [3745-270-07(D)(3)(b)]
Yes ___ No N/A ___ RMK# ___
- c. A certification statement for each shipment of treated debris? (See 270-07(D)(3)(c) for exact wording) [3745-270-07(D)(3)(c)]
Yes ___ No N/A RMK# ___

8. Does the notifications and certifications of an owner/operator who first claims the debris is excluded under 3745-51-03(F)(1) have the following information? [3745-270-07(D)(3)]

Yes ___ No ___ N/A ___ RMK# ___

a. Name and address of licensed solid waste landfill receiving the treated debris? [3745-270-07(D)(1)(a)]

Yes ___ No N/A ___ RMK# ___

b. Description of hazardous debris as initially generated with applicable waste codes? [3745-270-07(D)(1)(b)]

Yes ___ No N/A ___ RMK# ___

c. Technology used from Table 1? [3745-270-07(D)(1)(c)]

Yes ___ No N/A ___ RMK# ___

9. Has the above notification been sent to the director? [3745-270-07(D)(1)]

Yes ___ No ___ N/A RMK# ___

REMARKS

TREATING FACILITIES WHICH TREAT WASTE TO MEET LDR STANDARDS

1. Does the treating facility test waste according to their waste analysis plan as required in 3745-54-13 or 3745-65-13?[3745-270-07(B)] Yes__ No N/A__ RMK# __
2. Has a one-time notification been sent with the initial shipment of waste or contaminated soil to the land disposal facility? [3745-270-07(B)(3)] Yes__ No N/A__ RMK# __

Note: *No further notification is necessary until such time that the waste changes or the receiving facility changes.*

3. Does the one-time notification and certification contain the information listed in Table 2 of 3745-270-07?[3745-270-07(B)(3)] Yes__ No N/A__ RMK# __
4. Are wastes or treatment residues being sent to another TSD to be further managed? **If so:**
- a. Has the facility complied with the generator notification/certification requirements? [Table 1, 3745-270-07(B)(5)]
5. Are recyclable materials used in a manner constituting disposal and subsequently subject to 3745-266-20? **If so:**
- a. Has the treatment facility (recycler) sent a notification (found at 3745-270-07(B)(4)), excluding the manifest number, with each shipment of waste? [3745-270-07(B)(6)] Yes__ No N/A__ RMK# __
- b. Has the treatment facility (recycler) sent a certification found in 3745-270-07(B)(4)[3745-270-07(B)(6)] Yes__ No N/A__ RMK# __
- c. Has a copy of the notification and certification been sent to the director? [3745-270-07(B)(6)] Yes__ No N/A__ RMK# __
6. Does the recycling facility maintain records of the name and location of each entity receiving the hazardous waste-derived products? [3745-270-07(B)(6)] Yes__ No N/A__ RMK# __
7. Does the owner or operator of any land disposal facility disposing of waste subject to regulation under 3745-270 have:
- a. Copies of all notices and certifications required in 3745-270? Yes__ No N/A__ RMK# __
- b. Test results indicating all waste, extracts of waste or treatment residue are in compliance with 3745-270-40 to 3745-270-49? Yes__ No N/A__ RMK# __

c. The testing frequency specified in the facility's WAP and have they followed the protocol?

Yes ___ No N/A RMK# ___

REMARKS

UNIVERSITY OF AKRON

USED OIL INSPECTION CHECKLIST
GENERATORS, COLLECTION CENTERS AND AGGREGATION POINTS

NOTE: A facility is subject to the federal SPCC regulations (40 CFR 112) if it is non-transportation related (e.g., fixed) and has an aggregate above ground storage capacity greater than 1,320 gallons or a total underground storage capacity greater than 42,000 gallons of oil (including used oil), and there is reasonable expectation of a discharge to navigable waters.

PROHIBITIONS

- 1. Does the generator manage used oil in a surface impoundment or waste pile? If yes: Yes No N/A
- a. Is the surface impoundment or waste pile regulated as a hazardous waste management unit? [3745-279-12(A)] Yes No N/A
- 2. Is used oil used as a dust suppressant? [3745-279-12(B)] Yes No N/A
- 3. Is off-specification used oil fuel burned for energy recovery in devices specified in 3745-279-12(C)? Yes No N/A

NOTE: Multiple used oil checklists may be applicable if used oil handler is performing multiple tasks (e.g., If generating used oil and shipping directly to a burner, complete generator and marketer checklists at a minimum).

GENERATOR STANDARDS

- 4. Does the generator mix hazardous waste with used oil? If so, Yes No N/A
- a. Is the mixture managed as specified in 3745-279-10(B)? [3745-279-21(A)] Yes No N/A

NOTE: Used Oil mixed with listed (3745-51-30 to 3745-51-35) or characteristic (3745-51-20 to 3745-51-24) hazardous waste are subject to regulation as a hazardous waste, unless the listed hazardous waste is listed solely because it exhibits a hazardous characteristic, and the resultant mixtures do not exhibit a characteristic. Mixtures of used oil and CESQG hazardous waste are subject to OAC Chapter 3745-279.

- 5. Does the generator of a used oil containing greater than 1,000 ppm total halogens manage the used oil as a hazardous waste unless the presumption is rebutted successfully? [3745-279-21(B)] Yes No N/A

NOTE: If used oil contains greater than 1000 ppm total halogens, it is presumed to be listed hazardous waste until the presumption is successfully rebutted.

- 6. Does the generator store used oil in tanks; or containers; or a unit(s) subject to regulation as a hazardous waste management unit? [3745-279-22(A)] Yes No N/A
- 7. Are containers and aboveground tanks used to store used oil in good condition with no visible leaks? [3745-279-22(B)] Yes No N/A
- 8. Are containers, above ground tanks, and fill pipes used for underground tanks clearly labeled or marked "Used Oil?" [3745-279-22(C)] Yes No N/A

DRUM IN "ENERGY SYSTEMS" LABELED "WASTE OIL"
DRUM CONTAINING USED OIL FILTERS IN
GROUND VEHICLE MAINTENANCE NOT LABELED

9. Has the generator, upon detection of a release of used oil, done the following: [3745-279-22(D)]
- a. Stopped the release? Yes No N/A
 - b. Contained the release? Yes No N/A
 - c. Cleaned up and properly managed the used oil and other materials? Yes No N/A
 - d. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes No N/A

ON-SITE BURNING IN SPACE HEATER

10. Does the generator burn used oil in used-oil fired space heaters? [3745-279-23] If so: Yes No N/A
- a. Does the heater burn only used oil that owner/operator generates or used oil received from household do-it-yourself (DIY) used oil generators? Yes No N/A
 - b. Is the heater designed to have a maximum capacity of not more than 0.5 million BTU per hour? Yes No N/A
 - c. Are the combustion gases from heater vented to the ambient air? Yes No N/A

GENERATOR TRANSPORTATION

11. If the generator self-transport used oil to an approved collection site or to an aggregation point owned by the generator: [3745-279-24] Yes No N/A
- a. Does the generator transport used oil in a vehicle owned by the generator or an employee of the generator?[3745-279-24] Yes No N/A
 - b. Does the generator transport more than 55 gallons of used oil at any time?[3745-279-24] Yes No N/A

NOTE: Used oil generators may arrange for used oil to be transported by a transporter without a U.S. EPA ID # if the used oil is reclaimed under a contractual agreement (i.e., tolling arrangement).

COLLECTION CENTERS AND AGGREGATION POINTS

12. Is the DIY used oil collection center in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-30] Yes No N/A
13. Is the non-DIY used oil collection center registered with Ohio EPA? [3745-279-31] Yes No N/A
14. Is the used oil aggregation point in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-32] Yes No N/A

NOTE: Complete Used Oil Generator and any other applicable used oil handler checklist (e.g., marketer, burner, etc.) for used oil collection centers and aggregation points.

Keyword: UsedOilChecklistforGenerators.Oct.2007.doc

SMALL QUANTITY UNIVERSAL WASTE HANDLER REQUIREMENTS - BATTERIES AND LAMPS

Large Quantity Universal Waste Handler (LQUWH) = 5,000 Kg or more

Small Quantity Universal Waste Handler (SQUWH) = 5,000 Kg or less

PROHIBITIONS

1. Did the SQUWH dispose of universal waste? [3745-273-11(A)] Yes No N/A RMK#

2. Did the SQUWH dilute or treat universal waste, except when responding to releases as provided in 3745-273-17 or managing specific wastes as provided in 3745-273-13? [3745-273-11(B)] Yes No N/A RMK#
SOME U.W. BULBS ARE CRUSHED AND ~~TREATED~~ THEN MANAGED AS H.W.

WASTE MANAGEMENT & LABELING/MARKING

UNIVERSAL WASTE BATTERIES

3. Are battery(ies) that show evidence of leakage, spillage or damage that could cause leaks contained? [3745-273-13(A)(1)] Yes No N/A RMK#

4. If batteries are contained, are the containers closed and structurally sound, compatible with the contents of the battery and lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(A)(1)] Yes No N/A RMK#

5. Does the SQUWH conduct any of the following activities:

a. Sort batteries by type? Yes No N/A RMK#

b. Mix battery types in one container? Yes No N/A RMK#

c. Discharge batteries to remove the electric charge? Yes No N/A RMK#

d. Regenerated used batteries? Yes No N/A RMK#

e. Disassemble them into individual batteries or cells? Yes No N/A RMK#

f. Remove batteries from consumer products? Yes No N/A RMK#

g. Remove the electrolyte from the battery? Yes No N/A RMK#

If so, are the casings of the batteries breached, not intact, or open (except to remove the electrolyte)? [3745-273-13(A)(2)] Yes No N/A RMK#

6. If the electrolyte is removed or other waste generated, has it been determined whether it is a hazardous waste? [3745-273-13(A)(3)] Yes ___ No N/A RMK# ___

a. If the electrolyte or other waste is characteristic, is it managed in compliance with 3745-50 through 3745-69? [3745-273-13(A)(3)(a)] Yes ___ No N/A RMK# ___

b. If the electrolyte or other waste is not hazardous, is it managed in compliance with applicable law? [3745-273-13(A)(3)(b)] Yes ___ No N/A RMK# ___

7. Are the battery(ies) of container(s) of batteries labeled with the words "Universal Waste - Batteries" or "Waste Battery(ies)" or "Used Battery(ies)?" [3745-273-14(A)] CONTAINERS OF U.W. BATTERIES IN 90 DAY AREA NEAR KNIGHT HALL NOT LABELED Yes ___ No N/A ___ RMK# ___

UNIVERSAL WASTE LAMPS

8. Does the SQGUHW contain lamps in containers or packages that are structurally sound, adequate to prevent breakage, and are compatible with contents of the lamps? Are containers or packages closed and do they lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(D)(1)] Yes ___ No N/A ___ RMK#
 ~ 100 PLUS BOXES OF U.W. BUHBS IN BEL-AIR BLDG. NOT CLOSED AND NOT LABELED.

9. Are lamps that show evidence of breakage, leakage or damage that could cause a release of mercury or hazardous constituents into the environment immediately cleaned up? Are they placed into a container that is closed, structurally sound, compatible with the contents of the lamps, and lack evidence of leakage spillage or damage that could cause leakage or releases of mercury or hazardous waste constituents to the environment? [3745-273-13(D)(2)] Yes ___ No N/A RMK# ___

10. Are the lamps or containers or packages of lamps labeled with the words "Universal Waste - Lamp(s)" or "Waste Lamp(s)" or "Used Lamp(s)?" [3745-273-14(E)] Yes ___ No N/A ___ RMK#
 SEE REMARK FOR Q. 9.

NOTE: Treatment (such as crushing) by a UWH is prohibited under this rule unless the facility is permitted for such activities [3745-273-31(B)]. A generator crushing lamps must manage lamps according to hazardous waste rules (OAC Chapter 3745-52). Lamp crushing is a form of

generator treatment (OAC 3745-52-34). Crushed lamps must be transported by a registered hazardous waste transporter to a permitted hazardous waste facility under a hazardous waste manifest.

ACCUMULATION TIME

11. Is the waste accumulated for less than one year? [3745-273-15(A)] If not: Yes No ___ N/A ___ RMK# ___
- a. Was the waste accumulated over one year in order to facilitate proper recovery, treatment or disposal? (Burden of proof is on the handler to demonstrate) [3745-273-15(B)] Yes ___ No N/A RMK# ___

NOTE: Accumulation is defined as date generated or date received from another handler.

12. Is the length of time the universal waste is stored documented by one of the following: [3745-273-15(C)] Yes No N/A ___ RMK# ___
- a. Marking or labeling the container with the earliest date when the universal waste became a waste or was received? [3745-273-15(C)(1)] Yes ___ No N/A ___ RMK# ___
- b. Marking or labeling individual item(s) of universal waste with the earliest date that it became a waste or was received? [3745-273-15(C)(2)] Yes ___ No N/A ___ RMK# ___
- c. Maintaining an inventory system on-site that identifies the date the universal waste became a waste or was received? [3745-273-15(C)(3)] Yes ___ No N/A ___ RMK# ___
- d. Maintaining an inventory system on-site that identifies the earliest date that any universal waste in a group of universal waste items or a group of containers became a universal waste or was received? [3745-273-15(C)(4)] Yes ___ No N/A ___ RMK# ___
- e. Placing the universal waste in a specific accumulation area and identifying the earliest start date or date received? [3745-273-15(C)(5)] Yes ___ No N/A ___ RMK# ___
- f. Any other method, which clearly demonstrates, the length of time the universal waste has been accumulated from the date it became a waste or was received? [3745-273-15(C)(6)] Yes No ___ N/A ___ RMK#

SHIPPING PAPERS INDICATE SHIPMENTS WITHIN PAST YEAR

EMPLOYEE TRAINING

13. Are employees who handle or have the responsibility for managing universal waste informed of waste handling/emergency procedures, relative to their responsibilities? [3745-273-16] Yes No N/A RMK#

RESPONSE TO RELEASES

14. Are releases of universal waste and other residues immediately contained? [3745-273-17(A)] Yes No N/A RMK#
15. Is the material released characterized? [3745-273-17(B)] Yes No N/A RMK#
16. If the material released is a hazardous waste, is it managed as required in OAC Chapters 3745-50 through 3745-69? (If the waste is hazardous, the handler is considered the generator of the waste and is subject to Chapter 3745-52) [3745-273-17 (B)] Yes No N/A RMK#

OFF-SITE SHIPMENTS

NOTE: *If a SQUWH self-transport waste, then they must comply with the Universal Waste transporter requirements.*

17. Are universal wastes sent to either another handler, destination facility or foreign destination? [3745-273-18(A)] Yes No N/A RMK#

NOTE: *SQUWHs are prohibited to send waste to any other facility.*

18. If the universal waste meets the definition of hazardous material under 49 CFR 171-180, are DOT requirements met with regard to package, labels, placards and shipping papers? [3745-273-18(C)] Yes No N/A RMK#
19. Prior to shipping universal waste off-site, does the receiver agree to receive the shipment? [3745-273-18(D)] Yes No N/A RMK#
20. If the universal waste shipped off-site is rejected by another handler or destination facility does the originating handler do one of the following:
- a. Receive the waste back? [3745-273-18(E)(1)] Yes No N/A RMK#
- b. Agree to where the shipment will be sent? [3745-273-18(E)(2)] Yes No N/A RMK#

21. If a handler rejects a partial or full load from another handler, does the receiving handler contact the originating handler and discuss one of the following:
 Yes ___ No N/A RMK# ___
- a. Sending the waste back to the originating handler? [3745-273-18(F)(1)]
 Yes ___ No ___ N/A RMK# ___
- b. Sending the shipment to a destination facility? (If both the originating and receiving handler agree) [3745-273-18(F)(2)]
 Yes ___ No ___ N/A RMK# ___
22. If the handler received a shipment of hazardous waste that was not universal waste, did the SQUWH immediately notify Ohio EPA? [3745-273-18(G)]
 Yes ___ No N/A RMK# ___
23. If the handler received a shipment of nonhazardous, non-universal waste, was the waste managed in accordance with applicable law? [3745-273-18(H)]
 Yes ___ No N/A RMK# ___

EXPORTS

24. Is waste being sent to a foreign destination? If so:
 Yes ___ No N/A ___ RMK# ___
- a. Does the small quantity handler comply with primary exporter requirements in OAC 3745-52-53, 3745-52-56, and 3745-52-57? [3745-273-20(A)]
 Yes ___ No N/A RMK# ___
- b. Is waste exported only upon consent of the receiving country and in conformance with U.S. EPA's "Acknowledgment of Consent" as defined in 3745-52-50 to -52-57? [3745-273-20(B)]
 Yes ___ No N/A RMK# ___
- c. Is a copy of U.S. EPA's "Acknowledgment of Consent" provided to the transporter? [3745-273-20(C)]
 Yes ___ No N/A RMK# ___

REMARKS

UNIVERSITY OF AKRON - *OTD 987-056-439*
SMALL QUANTITY GENERATOR REQUIREMENTS
COMPLETE AND ATTACH A PROCESS, WASTE, P2 SUMMARY SHEET

CESQG: ≤ 100 Kg. (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] Yes No N/A
2. Has the generator obtained a U.S. EPA I.D. number? [3745-52-12] Yes No N/A
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 No N/A
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 No N/A
5. Does the generator accumulate hazardous waste? Yes No N/A

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 No N/A

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 No N/A

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? *LAMP CRUSHING* Yes No N/A
 - b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97 (C)? Yes No N/A
 - c. Drip pads that meet 3745-69-40 to 3745-69-45? Yes No N/A
 - d. Containment building that meets 3745-256-100 to 3745-256-102? Yes No N/A

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)] Yes No N/A
10. Are wastes reclaimed under a contractual agreement? If so: [3745-52-20(E)] Yes No N/A
 - a. Does the contractual agreement specify the type of waste and frequency of shipment? Yes No N/A

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- b. Is the transport vehicle owned and operated by the reclaimer? Yes No N/A
- c. Is a copy of the reclamation agreement kept on-site for at least three years after termination/expiration of the agreement? Yes No N/A

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)] Yes No N/A

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)]

12. Does each manifest designate at least one facility which is permitted to handle the waste? [3745-52-20(B)] Yes No N/A

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 No N/A

14. Have the manifests been signed by the generator and initial transporter? [3745-52-23 (A) (1) and (2)] Yes No N/A

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 No N/A

16. Are signed copies of all manifests being retained for at least three years? [3745-52-40] Yes No N/A

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 No N/A

18. Has the following been posted by the telephone: [3745-52-34(D)(5)(b)] **BLDG'S COVERED BY THIS F.O. NO. FOLLOW CONTINGENCY PLAN FOR**
- a. Name and telephone number of emergency coordinator? Yes No N/A

- b. Location of fire and spill control equipment, and, if present, fire alarm(s) **BLDG'S COVERED BY HQ6 I.D. NO-** Yes No N/A

- c. Telephone number of local fire department? Yes No N/A

19. Are employees familiar with waste handling and emergency procedures [3745-52-34(D)(5)(c)] Yes No N/A

20. Has the facility properly responded to all fires and spills? [3745-52-34(D)(5)(d)] Yes No N/A

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 No N/A

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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 No N/A
 - b. Emergency communication device? [3745-65-32(B)] Yes No N/A
 - c. Portable fire control, spill control and decon equipment? [3745-65-32(C)]? Yes No N/A
 - d. Water of adequate volume/pressure per documentation or facility rep? [3745-65-32(D)] *PRR FACILITY* Yes No N/A
23. Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency?[3745-65-33]
- a. Are inspections recorded in a log or summary? [3745-65-33]? Yes No N/A
24. Do personnel have immediate access to an internal alarm or emergency communication device when handling hazardous waste (*unless the device is not required under OAC 3745-65-32*)? [3745-65-34(A)] Yes No N/A
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? (Unless not required under 3745-65-32?) [3745-65-34(B)] Yes No N/A
26. Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35] Yes No N/A
27. Has the generator attempted to familiarize emergency authorities with possible hazards and facility layout? [3745-65-37(A)] Yes No N/A
28. Where authorities have declined to enter into arrangements or agreements, has the generator documented such a refusal? [3745-65-37(B)] Yes No N/A

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 No N/A
 - b. Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)] Yes No N/A
 - c. Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)] Yes No N/A
 - d. Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)] Yes No N/A
 - e. Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)]. Yes No N/A
 - f. Containers are marked with the words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)] Yes No N/A
30. Is the generator accumulating hazardous waste(s) in excess of the amounts listed in the preceding question? If so:
- 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 No N/A
 - 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 No N/A

*FULL 55 GALLON CONTAINERS OF CRUSHED
 BUBBS PRESENT IN BAL-AIRIE BLDG.
 LABEL DATED 10-19-07. ANOTHER CONTAINER
 LOCATED ON CRUSHED.*

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 No N/A
- 32. Is the accumulation date on each container? [3745-52-34(D)(4)] Yes No N/A
- 33. Are hazardous wastes stored in containers which are:
 - a. Closed (except when adding/removing wastes)? [3745-66-73(A)] Yes No N/A
 - b. In good condition? [3745-66-71] Yes No N/A
 - c. Compatible with wastes stored in them? [3745-66-72] Yes No N/A
 - d. Handled in a manner which prevents rupture/leakage? [3745-66-73(B)] Yes No N/A

NOTE: Record location on process summary sheets and photograph the area.

- 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 No N/A
 - a. Are inspections recorded in a log or summary? [3745-66-74] Yes No N/A
- 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 No N/A
- 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 No N/A
- 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 No N/A

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.

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 No N/A
- 39. Does each container ≤100 gallons have a completed hazardous waste label? [3745-52-32(B)] Yes No N/A
- 40. Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33] Yes No N/A