



State of Ohio Environmental Protection Agency

Northeast District Office

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

November 7, 2007

Mr. Vincent M. Genova
Technical Director
Kalcor Coatings Company
37721 Stevens Blvd.
Willoughby, OH 44094

**RE: KALCOR COATINGS COMPANY, OHD 004 220 885, LARGE QUANTITY
GENERATOR, NOTICE OF VIOLATION / RETURN TO COMPLIANCE**

Dear Mr. Genova:

On October 5, 2007, Ohio EPA conducted a Compliance Evaluation Inspection of Kalcor Coatings Company located at 37721 Stevens Blvd, Willoughby, Ohio. The purpose of the inspection was to determine Kalcor's compliance with Ohio's hazardous waste laws as found in Chapter 3734 of the Ohio Revised Code (ORC), and Chapter 3745 of the Ohio Administrative Code (OAC). Ohio EPA was represented by Sherry Slone and myself. Kalcor was represented by you and Steve Adams. On October 26, 2007, Ohio EPA received information addressing unresolved issues from the inspection by submitting information covering hazardous waste storage tank inspection data, chemical profiles with LDR forms, 2006 RCRA training, updated contingency plan and analysis for low mercury lamps.

Kalcor is a manufacture of coatings (paints). They produce water-based and solvent-based coatings. Kalcor purchases raw material, including resins, pigments, and other additives. Formulas are made in the on site lab. Then batches are made in quantities of 50-500 gallons. Kalcor mixes and/or grinds the pigments and resins in large mixers which makes a paste. The paste is mixed with solvent, which is then filtered. The finished product is placed in containers and shipped to their customers. Kalcor generates waste with the following hazardous waste codes, D001, F003, F005 and D035. Kalcor has one 1500 gallon hazardous waste storage tank #26 which stores hazardous waste water from cleaning mixers/grinders.

Kalcor was inspected for the following requirements: a Large Quantity Generator of Hazardous Waste; a Used Oil generator and a Small Quantity Handler of Universal Waste. Enclosed is a copy of the inspection checklists pertaining to these requirements. A full discussion of the facility's processes, waste management units and pollution prevention (P2) activities, as understood by Ohio EPA, is provided in the "Process Description/Waste Activities Summary" section of the checklist.

KALCOR COATINGS COMPANY
NOVEMBER 7, 2007
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Based on this inspection, Ohio EPA found Kalcor in violation of the following rule.

1. OAC Rule 3745-65-52(D).

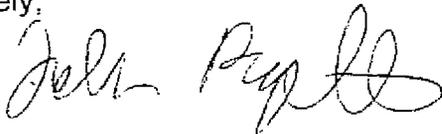
During the review of the contingency plan it was noted that the list of names, address, and phone numbers of all qualified to act as emergency coordinator had not been updated. This issues was abated with the submittal of the October 26, 2007 letter to Ohio EPA containing a copy of an updated contingency plan.

You can find copies of the rules and other information on the division's web page at <http://www.epa.state.oh.us/dhwm>. Ohio EPA also has helpful information about pollution prevention at the following web address: <http://www.epa.state.oh.us/opp>.

The Division of Hazardous Waste Management offers a free news service to provide you with timely updates on activities related to hazardous waste. You can find out more information and sign up for this service at www.epa.state.oh.us/dhwm/listserv.

Should you have any questions regarding this letter, please contact me at (330) 963-1246.

Sincerely,



John Paquelet
Environmental Specialist II
Division of Hazardous Waste Management

JP:ddw

Enclosure

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

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.

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

CESQG: ≤ 100Kg. (Approximately 25-30 gallons) of waste in a calendar month or < 1 Kg. of acutely hazardous waste.

SQG: Between 100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calendar month.

LQG: ≥ 1,000 Kg. (~300 gallons) of waste in a calendar month or ≥ 1 Kg. of acutely hazardous waste in a calendar month.

NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds.

Safety Equipment Used:

GENERAL REQUIREMENTS

- | | | | |
|---|---|--|------------------------------|
| 1. Have all wastes generated at the facility been adequately evaluated? [3745-52-11] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Are records of waste determination being kept for at least 3 years?[3745-52-40(C)] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Has the generator obtained a U.S. EPA identification number? [3745-52-12] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 4. Were annual reports filed with Ohio EPA on or before March 1 st ? [3745-52-41(A)] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 5. Are annual reports kept on file for at least 3 years?[3745-52-40(B)] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 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 <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| 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 <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| 8. Does the generator accumulate hazardous waste? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

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

- | | | | |
|---|------------------------------|--|------------------------------|
| 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 <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
|---|------------------------------|--|------------------------------|

NOTE: If F006 waste is generated and accumulated for > 90 days and is recycled see 3745-52-34(G) & (H).

- | | | | |
|---|------------------------------|--|------------------------------|
| 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 <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97 (C)? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| c. Drip pads that meet 3745-69-40 to 3745-69-45? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| d. Containment building that meets 3745-256-100 to 3745-256-102? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |

NOTE: Complete appropriate checklist for each unit.

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

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

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 13. Have items (1) through (20) of each manifest been completed? [3745-52-20(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 completed. [3745-52-20(A)]

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|--|---|-----------------------------|------------------------------|
| 14. 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 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)].

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|---|---|-----------------------------|------------------------------|
| 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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
|---|---|-----------------------------|------------------------------|

- | | | | |
|---|---|-----------------------------|------------------------------|
| 16. Have the manifests been signed by the generator and initial transporter? [3745-52-23(A)(1) & (2)] | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
|---|---|-----------------------------|------------------------------|

[Facility Name/Inspection Date]

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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 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)] *They Received the manifest* 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

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.

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, at a minimum, include instructions to ensure that facility personnel are able to respond effectively to emergencies involving hazardous waste 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:
- a. Job titles [3745-65-16D(1)]? Yes No N/A
 - b. Job descriptions [3745-65-16D(2)]? Yes No N/A
 - c. Type and amount of training given to each person [3745-65-16D(3)]? Yes No N/A
 - d. Completed training or job experience required [3745-65-16D(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

NOTE: The following section can be used by the inspector to document that all personnel who are involved with hazardous waste management have been trained. The employees who need training (written and/or on-the-job) may include the following: environmental coordinators, drum handlers, emergency coordinators, personnel who conduct hazardous waste inspections, emergency response teams, personnel who prepare manifest, etc.

<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)] 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

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.

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 communications or 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)] 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 3745-65-32) [3745-65-34(B)] Yes No N/A

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 a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)] Yes No N/A

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- 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 words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)] Yes No N/A
43. Is the generator accumulating hazardous waste(s) in excess of the amounts listed in the preceding question? If so: Yes No N/A
- 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

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 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, photograph the area, and record on facility map.

47. Is the container accumulation areas(s) inspected weekly? [3745-66-74] Per ORC §1.44(A) "Week" means 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)] *No incompatibles.* 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 for the file 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
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 REQUIREMENTS

- 1. Has the generator adequately evaluated all wastes to determine if they are restricted from land disposal? [3745-270-07(A)(1)] (possibly also cite 3745-52-11) **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] (possibly also cite 3745-52-11) 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 exceed treatment standards? [3745-270-07(A)(1)]

Yes No N/A ___ RMK# ___

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]



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]

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

Yes ___ No N/A ___ RMK# ___

If so:

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? [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? [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? [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? [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# ___

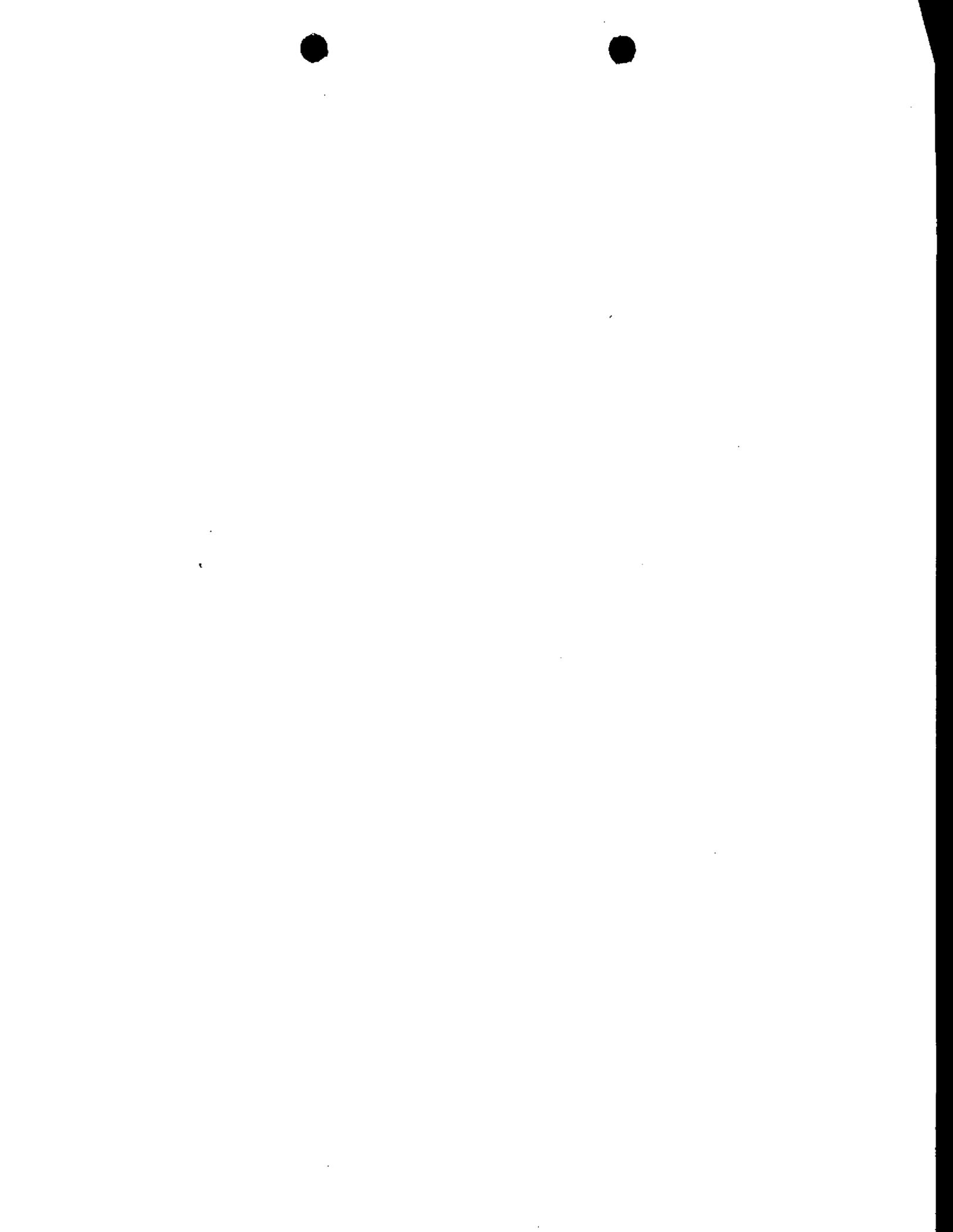
a. Is a one-time notice placed in the facility's file stating such generation, subsequent exclusion or exemption, and disposition of the wastes? [3745-270-07(A)(7)] Yes ___ No N/A RMK# ___

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. 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.

5. 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# ___
6. 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# ___
7. Has the generator, who is treating a characteristic waste, submitted a notification and certification to the director which contains the following:
- i. Name and address of the facility receiving the waste? [3745-270-09(D)(1)(a)] Yes ___ No N/A ___ RMK# ___
- ii. 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.

8. 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.

9. 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# ___

10. 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 under 3745-51-03(F)(1) maintain the following information?

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) 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

- 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:** Yes ___ No ___ N/A ___ RMK#___
 - a. Has the facility complied with the generator notification/certification requirements? [Table 1, 3745-270-07(B)(5)] Yes ___ No N/A ___ RMK#___
- 5. Are recyclable materials used in a manner constituting disposal and subsequently subject to 3745-266-20? **If so:** Yes ___ No ___ N/A ___ RMK#___
 - 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: Yes ___ No ___ N/A ___ RMK#___



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. Followed the testing frequency specified in the facility's WAP?

Yes No N/A RMK# _____

REMARKS



SMALL QUANTITY UNIVERSAL WASTE HANDLER REQUIREMENTS

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#

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)]

Yes No N/A RMK#

UNIVERSAL WASTE PESTICIDES

8. Does the SQUWH prevent releases to the environment by managing pesticides in containers that are closed, structurally sound, compatible with the pesticides, and lack evidence of leakage, spillage, or damage? [3745-273-13(B)(1)]

Yes No N/A RMK#

9. If the original pesticide container is in poor condition, was it over-packed into an acceptable container? [3745-273-13(B)(2)]

Yes No N/A RMK#

10. If the pesticide is stored in a tank, are the requirements of 3745-66-90 through 3745-66-101, except for paragraph (C) of 3745-66-97; 3745-66-100 and -66-101 of the OAC met? (Use tank checklist) [3745-273-13(B)(3)]

Yes No N/A RMK#

11. If pesticides are stored in a transport vehicle, is it closed, structurally sound and compatible with the pesticide(s)? [3745-273-13(B)(4)]

Yes No N/A RMK#

12. Are containers, tanks, or transport vehicles that contain universal waste pesticides, labeled with either "Universal Waste Pesticides" or "Waste Pesticides"? [3745-273-14(B)]

Yes No N/A RMK#



UNIVERSAL WASTE THERMOSTATS

13. Are thermostats that show evidence of leaking, spilling, or damage that could cause leaks, properly contained? [3745-273-13(C)(1)] Yes ___ No N/A ___ RMK# ___
14. If the thermostats are contained, are the containers closed, structurally sound, compatible with contents of the thermostats and lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(C)(1)] Yes ___ No N/A ___ RMK# ___
15. If the mercury-containing ampules are removed, does the SQUWH: [3745-273-13(C)(2)]
- a. Remove the ampules in a manner to prevent breakage and are they removed over or in a containment device? [3745-273-13(C)(2)(a)(b)] Yes ___ No N/A ___ RMK# ___
 - b. Have a clean-up system readily available to transfer spilled mercury to another container that meets the requirements of OAC 3745-52-34 and is the spilled mercury transferred immediately? [3745-273-13(C)(2)(c)(d)] Yes ___ No N/A ___ RMK# ___
 - c. Ensure that the area where ampules are removed is well ventilated and monitored in compliance with applicable OSHA exposure levels for mercury? [3745-273-13(C)(2)(e)] Yes ___ No N/A ___ RMK# ___
 - d. Ensure that employees are thoroughly familiar with the proper waste handling and emergency procedures? [3745-273-13(C)(2)(f)] Yes ___ No N/A ___ RMK# ___
 - e. Ensure that removed ampules are stored in closed, non-leaking containers that are in good condition? [3745-273-13(C)(2)(g)] Yes ___ No N/A ___ RMK# ___
 - f. Pack removed ampules in containers with packing material to prevent breaking during storage, handling and transportation? [3745-273-13(C)(2)(h)] Yes ___ No N/A ___ RMK# ___
16. If mercury, clean-up residues, or other wastes are generated, are they evaluated to determine whether they exhibit a characteristic of a hazardous waste? [3745-273-13(C)(3)(a)] Yes ___ No N/A ___ RMK# ___



a. If the waste is characteristic, is it managed in compliance with OAC Chapters 3745-50 through 3745-69? (The handler is considered the generator of the mercury, residues, and/or other waste and is subject to Chapter 3745-52.) [3745-273-13]

Yes ___ No N/A ___ RMK# ___

b. If the mercury, residues and/or other wastes are not hazardous, are they managed in compliance with applicable law? [3745-273-13(C)(3)(c)]

Yes ___ No N/A ___ RMK# ___

17. Are thermostats or containers of thermostats labeled either "Universal Waste-Mercury Thermostat(s)" or "Waste Mercury Thermostat(s)" or "Used Mercury Thermostat(s)?" [3745-273-14(D)]

Yes ___ No N/A ___ RMK# ___

UNIVERSAL WASTE LAMPS

They dispose of lamps as a solid waste, provided data to demonstrate.

18. 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# ___

19. 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# ___

20. 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# ___

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

21. 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.

22. 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# ___

EMPLOYEE TRAINING



23. 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

24. Are releases of universal waste and other residues immediately contained? [3745-273-17(A)]

Yes ___ No N/A ___ RMK# ___

25. Is the material released characterized? [3745-273-17(B)]

Yes ___ No N/A ___ RMK# ___

26. 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.*

27. 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.*

28. 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# ___

29. Prior to shipping universal waste off-site, does the receiver agree to receive the shipment? [3745-273-18(D)]

Yes No N/A ___ RMK# ___

30. 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# _____

31. 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# _____

33. 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# _____

34. 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

35. 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



LQG TANK SYSTEM REQUIREMENTS (OAC rule 3745-52-34(A) and OAC rules 3745-66-90 through 3745-66-100)

(Please refer to the rules before or while completing this checklist.)

1. Is each tank clearly labeled/marked with the words "Hazardous Waste" [3745-52-34(A)(3)]? Yes No N/A

TANK SYSTEM – GENERAL OPERATING REQUIREMENTS

2. Does the o/o follow the general operating requirements below:
- a. Does the o/o prevent placement of hazardous waste or treatment reagents in tank or secondary containment if such placement can cause the system to leak, rupture, corrode, or otherwise fail?[3745-66-94(A)] Yes No N/A
- b. Does the o/o use appropriate controls to prevent spills or overflows from the system (e.g., check valves, dry disconnect couplings, high level alarms, etc.)?[3745-66-94(B)] Yes No N/A
- c. If a leak or spill has occurred in the tank system, has the o/o complied with 3745-66-96?[3745-66-94(C)] Yes No N/A

TANK SYSTEM – INSPECTION REQUIREMENTS

3. Has the o/o documented the inspections required in 3745-66-95, in the operating record, including inspection of the following:
- a. Spill control equipment each operating day? [3745-66-95(A)(1)] Yes No N/A
- b. Above ground portion of tank each operating day?[3745-66-95(A)(2)] Yes No N/A
- c. Data from leak detection equipment each operating day?[3745-66-95(A)(3)] Yes No N/A
- d. Construction materials and area immediately surrounding the tanks for signs of erosion or release of hazardous waste each operating day?[3745-66-95(A)(4)] Yes No N/A

NOTE: "Each operating day" is each day that the tank system is being used to manage (store or treat) hazardous waste.

4. Where applicable, the cathodic protection system to confirm proper operation within six months of initial installation and annually thereafter?[3745-66-95(B)(1)] Yes No N/A
5. Where applicable, all sources of impressed current at least bi-monthly?[3745-66-95(B)(2)] Yes No N/A

TANK SYSTEM CLOSURE REQUIREMENTS

6. If the generator has closed a <90 day tank, was closure completed in accordance with OAC 3745-66-97 (except for paragraph C)? Yes No N/A

TANK SYSTEMS STORING IGNITABLE OR REACTIVE WASTES

7. For tanks used to treat or store ignitable or reactive wastes, has the o/o complied with one of the following: [3745-66-98(A)] Yes No N/A
- a. Is the waste treated immediately after placement in the tank so that the resultant mixture is no longer ignitable or reactive and the o/o has conducted such activities in compliance with 3745-66-17(B)?[3745-66-98(A)]; OR Yes No N/A
- b. Is the waste stored or treated to protect it from materials or conditions which may cause ignition or reaction?[3745-66-98(A)]; OR Yes No N/A
- c. The tank is used solely for emergencies?[3745-66-98(A)] Yes No N/A
8. If ignitable or reactive waste is stored or treated, are protective distances maintained between waste management areas and any public streets, alleys or adjoining property lines as required by the NFPA Flammable and Combustible Liquids Code (1996)? [3745-66-98(B)] Yes No N/A
9. Has the o/o placed incompatible wastes or materials into the same tank system, or into a tank system that has not been decontaminated and which previously held an incompatible waste or material?[3745-66-99(A) and/or (B)] Yes No N/A
- a. If so, have the requirements of 3745-65-17(B) been met?[3745-66-99(A) and/or (B)] Yes No N/A

TANK SYSTEM – WASTE ANALYSIS REQUIREMENTS

10. In addition to conducting the waste analysis required by 3745-65-13, when the tank system is used to store or treat a waste which is substantially different or uses a substantially different process than previously used, has the o/o done one of the following:[3745-66-100]
- a. Conducted waste analysis and trial treatment or storage tests?[3745-66-100(A)]; OR Yes No N/A
- b. Obtained written documentation on similar waste under similar operating conditions to show that the proposed storage/treatment will meet the requirements of OAC 3745-66-94? [3745-66-100(B)] Yes No N/A

TANK SYSTEMS REQUIREMENTS

11. Is there a written assessment attesting that the design, installation and structural integrity of the system is adequate for the management of hazardous waste(s)?[3745-66-92(A)] Yes No N/A

NOTE: You should review the file to see if the written assessment has been previously reviewed and what the results were.

[Facility Name/Inspection Date]

[ID number]

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12. Does the written assessment include the following:[3745-66-92(A)]

- a. Certification by an independent registered, professional engineer?[3745-66-92(A)] Yes No N/A
- b. Consideration of the design standards of the system?[3745-66-92(A)] Yes No N/A
- c. Consideration of the hazardous characteristics of the waste(s)?[3745-66-92(A)] Yes No N/A
- d. An evaluation by a corrosion expert (only if the external system/components are metal and in contact with soil or water)?[3745-66-92(A)] Yes No N/A
- e. A determination of design and operational measures that will be needed to protect the tank system from potential damage (only for underground tank components)?[3745-66-92(A)] Yes No N/A
- f. Design considerations to ensure that the tank foundations will maintain the load of a full tank?[3745-66-92(A)] Yes No N/A
- g. Design considerations for anchoring the unit to prevent floatation (only for tanks situated in a seismic fault zone or saturated zone)?[3745-66-92(A)] Yes No N/A
- h. Design considerations to ensure that the tank system will withstand the effects of frost heave(only for underground tank systems)?[3745-66-92(A)] Yes No N/A

NOTE: CO-DHWM Engineering staff are available to assist you with evaluation of the written assessment.

13. Are there written statements by those persons who supervised installation or certified design of the new tank system, that the tank system was properly installed and designed and that required repairs were performed?[3745-66-92(G)] Yes No N/A

Do the written statements address all of the following:

- a. Inspection for damage and/or inadequate construction and installation was conducted?[3745-66-92(B)] Yes No N/A
- b. Statement that deficiencies were corrected before the tank system was covered or put into use?[3745-66-92(B)] Yes No N/A
- c. Proper backfilling?[3745-66-92(C)] Yes No N/A
- d. Tightness test; if the tank system was found not to be tight, does the statement indicate that proper repairs were made?[3745-66-92(D)] Yes No N/A
- e. Proper support and protection of ancillary equipment?[3745-66-92(E)] Yes No N/A
- f. Supervision of the installation of field fabricated corrosion protection?[3745-66-92(F)] Yes No N/A

SECONDARY CONTAINMENT

14. Has secondary containment been provided? Yes No N/A

NOTE: All tank systems must have secondary containment at this point, except for tank systems that store/treat materials that become hazardous waste after January 12, 1987, must have secondary containment required within the time intervals in [3745-66-92(A)(1)] to (A)(4). The date the material became a hazardous waste must be used in place of January 12, 1987.[3745-66-92(A)(5)]

15. Is secondary containment one of the following: Yes No N/A

- a. An **External Liner**? [3745-66-93(E)(1)] If so,
 - i. Is liner designed or operated to contain 100% of the capacity of the largest tank? Yes No N/A
 - ii. Is liner designed and operated to prevent run-on and infiltration or the collection system has excess capacity to contain run-on and infiltration from a 25-year, 24-hour storm? Yes No N/A
 - iii. Is liner free of cracks and gaps? Yes No N/A
 - iv. Does liner completely surround the tank and cover all earth likely to be contacted by waste during a release? Yes No N/A
 - v. Are chemically resistant water stops in place at all points? (concrete liners only) *Not known* Yes No N/A
 - vi. Is there a compatible interior coating or lining to prevent migration of waste into the concrete? (concrete liners only) Yes No N/A
- b. **Vault System**? [3745-66-93(E)(2)] If so,
 - i. Is vault system designed to contain 100% of the capacity in the largest tank? Yes No N/A
 - ii. Is liner designed and operated to prevent run-on and infiltration or the collection system has excess capacity to contain run-on and infiltration from a 25-year, 24-hour storm? Yes No N/A
 - iii. Are chemically resistant water stops in place at all points? Yes No N/A
 - iv. Is there a compatible interior coating to prevent migration into the concrete? Yes No N/A

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- v. For **ignitable or reactive waste**: Is the vault system provided with means to prevent (or alternatively "protect against") the formation or ignition of vapors? Yes No N/A
- vi. Is vault system provided with an exterior moisture barrier? Yes No N/A
- c. **Double-Walled Tank?** [3745-66-93(E)(3)] If so,
 - i. Is double-walled tank designed as an integral structure to contain any release from the inner tank? Yes No N/A
 - ii. If metal, are the primary tank interior and outer shell exterior surfaces protected from corrosion? Yes No N/A
 - iii. Is double-walled tank provided with a continuous leak detection system able to detect a release within 24 hours or at the earliest practicable time? Yes No N/A
- d. **An Equivalent Device?** As described in 3745-66-93(D)(4) which has been approved by the director? [3745-66-93(D&E)] Yes No N/A

SECONDARY CONTAINMENT DESIGN/OPERATION/INSTALLATION

- 16. Has each secondary containment system been designed, installed and operated to prevent any migration of wastes or liquid to the soil, groundwater, or surface water and is it capable of detecting and collecting releases and accumulated liquids?[3745-66-93(B)(1) and (2)] Yes No N/A
- 17. Does the secondary containment system meet the following minimum requirements of [3745-66-93(C)]:
 - a. Constructed or lined with compatible materials of sufficient strength to prevent failure?[3745-66-93(C)(2)] Yes No N/A
 - b. Placed on a foundation or base capable of providing support?[3745-66-93(C)(2)] Yes No N/A
 - c. Provided with a leak detection system designed/operated to detect failure to primary or secondary containment or any release of hazardous waste within 24 hours or at earliest practicable time?[3745-66-93(C)(3)] Yes No N/A
 - d. Sloped or designed to drain and remove liquid resulting from leaks, spills or precipitation?[3745-66-93(C)(4)] Yes No N/A
 - e. Any liquid which accumulates in the containment unit resulting from spills, leaks or precipitation removed within 24 hours or in a timely manner?[3745-66-93(C)(4)] Yes No N/A

ANCILLARY EQUIPMENT REQUIREMENTS

- 18. Is ancillary equipment provided with secondary containment (such as double-walled piping, jacketing or a trench)? Yes No N/A
- If not, is the ancillary equipment one of the following: [3745-66-93(F)]
 - a. Above ground piping (exclusive of flanges, joints, valves and connections) that is inspected daily? Yes No N/A
 - b. Welded flanges, welded joints and/or welded connections that is inspected daily? Yes No N/A
 - c. Sealless or magnetic coupling pumps and/or sealless valves? Yes No N/A
 - d. Pressurized above ground piping systems with automatic shut-off devices (e.g., excess flow check valves, flow metering shutdown and/or loss of pressure-actuated shut-off devices) that is inspected daily? Yes No N/A

TANK SYSTEMS FOUND TO BE LEAKING OR UNFIT FOR USE

- 19. Has there been a leak or spill from any tank system or has any tank system been found unfit for use? If so, did the o/o: Yes No N/A
- NOTE: If the tank is found to be unfit for use, inspector should explain why.
 - a. Immediately cease flow of material into tank and investigate the cause of the release?[3745-66-96(A)] Yes No N/A
 - b. Remove waste from tank system to prevent further release within 24 hours of detection or earliest practicable time?[3745-66-96(B)(1)] Yes No N/A
 - c. Remove all material released into secondary containment system within 24 hours or as timely as possible to prevent harm to human health and the environment?[3745-66-96(B)(2)] Yes No N/A
 - d. For a visible release to the environment, immediately conduct a visual inspection of the release?[3745-66-96(C)] Yes No N/A
 - e. For a visible release to the environment, prevent further migration of the leak or spill to soils or surface waters?[3745-66-96(C)] Yes No N/A
 - f. For a visible release to the environment, properly dispose of any visibly contaminated soil or surface water? [3745-66-96(C)] Yes No N/A
 - g. Report any release to the environment to the director within 24 hours unless it was less than one pound and was cleaned up immediately? [3745-66-96(D)(1)] Yes No N/A



- h. For a release to the environment, submit a written report of the incident to the director within 30 days of the release? [3745-66-96(D)(3)] Yes No N/A
- i. Remediate the spill and repair the unit prior to returning it to service? [3745-66-96(E)(2)] Yes No N/A
- j. For a release from a tank system without secondary containment, did the o/o provide secondary containment meeting the requirements of 3745-66-93 for the unit prior to putting it back into service? [3745-66-96(E)(4)] Yes No N/A

NOTE: The requirements noted in 20.j. do not apply if the release was from an above ground component of the tank which can be inspected visually after being put back into service.

- 20. In the event that the repairs to the tank system were major (e.g., replacement of liner, repair of ruptured primary or secondary containment structure), did the o/o obtain a certification from an independent, registered P.E. attesting that the repaired unit is capable of handling hazardous waste? [3745-66-96(F)] Yes No N/A
- 21. Was a copy of the certification submitted to the director within seven days after returning the system to use? [3745-66-96(F)] Yes No N/A
- 22. If the o/o was unable to repair and return the unit to service as described in 20.a through 20.e, was the tank system closed in accordance with 3745-66-97? [3745-66-96(E)(1)] Yes No N/A
- 23. Does the o/o have a tank system **with a variance from secondary containment** from which a release has occurred but has not migrated beyond the zone of engineering control? Yes No N/A
- If so,**
 - a. Has the o/o complied with 3745-66-96(A) through (F) and decontaminated soils? [3745-66-93(G)(3)] Yes No N/A
 - b. If soils cannot be decontaminated/removed, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(3)] Yes No N/A
- 24. Does the o/o have a tank system **with a variance from secondary containment** from which a release occurred and has migrated from the zone of engineering control? **If so,**
 - a. Has the o/o complied with 3745-66-96(A) through (D), prevented migration, and decontaminated soil? [3745-66-93(G)(4)] Yes No N/A
 - b. If soils cannot be decontaminated/removed, or if the groundwater has been contaminated, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(4)] Yes No N/A

