



State of Ohio Environmental Protection Agency

Southeast District Office

2195 Front Street
Logan, Ohio 43138

TELE: (740) 385-8501 FAX: (740) 385-6490
www.epa.state.oh.us

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

July 30, 2007

**ROSS COUNTY
ROCAL INC.
DHWM/SEDO
OHD990780777
OHD981153601**

Mr. Tom Baldwin
Rocal, Inc.
3186 County Road 550
Frankfort, Ohio 45628

Dear Mr. Baldwin:

On June 26, 2007, Ohio EPA inspected Rocal's two facilities identified respectively as OHD990780777 (new/second plant) and OHD981531601 (old/first plant) in Frankfort, Ohio ("Rocal") to determine Rocal'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). This letter will explain the violations I found, what you need to do to correct the violations, other general concerns we have, what you need to do to respond to my general concerns and any pollution prevention opportunities I identified.

Note that violations found during Ohio EPA's June 26, 2007 inspection, which are cited in this letter, are separate from, and in addition to, those violations previously cited in Ohio EPA's June 14, 2007 Notice of Violation letter.

I found the following violations of Ohio's hazardous waste laws. In order to correct these violations, you must do the following and send me the required information **within 30 days** of the date of this letter:

Rocal new/second facility (OHD990780777)

- (1) **ORC 3734.02(E)(F), Prohibitions:** No person shall store, treat, or dispose of hazardous waste, or transport or cause to be transported any hazardous waste except to or at a permitted hazardous waste facility.

Rocal has stored for greater than ninety days approximately 800 gallons of D002/D007 hazardous waste rinse water in three 350-gallon totes located near the chromate conversion line. This liquid was removed from the chromate conversion system prior to Ohio EPA's inspection that was conducted on June 13, 2006, and has been stored on-site for greater than one year, thus illegal storage of hazardous waste has occurred.

Rocal must immediately manifest this waste offsite to a permitted hazardous waste treatment, storage or disposal facility and submit documentation to this office, in the form of manifests, that this has been done.

Note that Rocal will be required to complete generator closure of this unit pursuant to OAC rule 3745-52-34.

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

(2) OAC Rule 3745-52-34 (A)(3), Accumulation Time of Hazardous Waste:

A generator may, for ninety days or less, accumulate hazardous waste onsite and conduct treatment of that waste onsite in tanks without a permit, provided that the waste is placed in tanks that meet the requirements of rules 3745-66-90 to 3745-66-101 except for paragraph (C) of 3745-66-97 and rule 66-100. In addition, the generator must label each container and tank of waste with the words "hazardous waste."

Rocal treated D002/D007 rinsewater, which had been removed from the chromate conversion system and accumulated onsite for less than ninety days in an evaporator. Rocal failed to label the evaporator with the words "hazardous waste". In order to abate this violation, Rocal must label the evaporator and submit a photograph of the properly labeled evaporator.

(3) OAC Rule 3745-52-34(A)(3), Accumulation Time of Hazardous Waste: A generator may accumulate hazardous waste onsite in containers for ninety days or less without a permit if containers are labeled with the words "hazardous waste".

Rocal failed to label six drums of D002/D007 filter cake located at the chromate conversion line. This was corrected during the inspection; therefore, Rocal has now abated this violation.

(4) OAC Rule 3745-66-73, Management of Containers: A container holding hazardous waste must be closed during storage unless adding or removing waste.

Rocal failed to close several drums of D002/D007 filter caked located at the chromate conversion line. These were closed during the inspection; therefore, this violation has been abated.

Rocal old/first facility (OHD981531601)

During the inspection, Ohio EPA representatives observed the chromate conversion line in the old/first Rocal facility. All six tanks were being used for chromate conversion including the sixth tank, which, according to facility representatives, is an emergency tank that is only used during

maintenance of other tanks or emergencies. According to facility representatives, no waste was being accumulated or generated in the tanks during the inspection. Rocal representatives stated that they conduct a weekly inspection of the tanks, which episodically generate large quantities of waste when their contents are spent. Copies of the checklists were observed by inspectors. No additional violations were apparent other than those previously those cited in the 6/14/07 NOV letter.

GENERAL COMMENTS

- (a) A generator may, for ninety days or less, accumulate hazardous waste onsite and conduct treatment of that waste onsite in tanks without a permit, provided that the waste is placed in tanks that meet the requirements of OAC Rules 3745-66-90 to 3745-66-101 except for paragraph (C) of 3745-66-97 and rule 66-100.

The above regulations apply to the evaporator at Rocal because generator treatment of hazardous waste rinsewater (D002/D007) occurs in the evaporator after rinsewater has been removed from the chromate conversion system and is then placed back into the evaporator for treatment within ninety days of removal.

In order to demonstrate compliance with these regulations, please submit documentation demonstrating that Rocal meets requirements of OAC Rule 3745-66-94, General Operating Requirements for Tank Systems and 3745-66-95, Inspection Requirements for Tank Systems. In addition, Rocal must demonstrate that the evaporator tank meets the requirements of OAC Rule 3745-66-92, Design and Installation of New Tank Systems or Components; and 3745-66-93, Containment and Detection of Releases. Note that if rinsewater is accumulated onsite for longer than 90 days, it is considered unpermitted storage of hazardous waste. For guidance on how to conduct generator treatment in compliance with Ohio hazardous waste regulations, please see the following:

http://www.epa.state.oh.us/dhwm/pdf/Generator_Treatment_Guidance.pdf

- (b) Ohio EPA cannot adequately evaluate Rocal's compliance with Land Disposal Restriction regulations until Rocal submits land disposal restriction forms for the following three waste streams:
- 1) D007 filter cake
 - 2) D002/D007 generated from old/first Rocal
 - 3) D001 waste ink
- (c) Rocal has requested that Ohio EPA determine whether rinsewater can be removed from the chromate conversion process at the new plant, transported to the old plant and reused as raw material in tank #3 of the chromate conversion process there. If you wish to have a written regulatory interpretation of this potential activity, please submit a letter with a detailed description of this proposed activity to Jeff Mayhugh, Regulatory Services

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Rocal Old and New Facilities
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Unit, Division of Hazardous Waste Management, Ohio EPA, Lazarus Government Center, 50 W. Town Street, Columbus, Ohio 43215.

- (d) During the inspection, Rocal expressed interest in minimizing wastewater generated in the screen printing process. This was referred to Ohio EPA's Office of Compliance Assistance and Pollution Prevention. Dave Foulkes of that office contacted you on July 11, 2007 about providing technical assistance.

Please submit all requested information **within 30 days** of the date of this letter demonstrating that all violations have been abated. Should you have any questions, please feel free to call me at 740-380-5293.

Sincerely,



Donna Goodman
District Representative
Division of Hazardous Waste Management

DG/mlm

cc: William B. Shaklee, Squire, Sanders and Dempsey
Francis Kovac, CO/Legal
Ike Wilder, CO/DHWM

NOTICE:

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

			functioning properly.				
4	Printing	Unused ink from ink cans D001	several 55 gal drums per year. Currently managed as SAA in print shop. Last manifested in 2006.		Onyx Environmental W. Carrollton, OH Fuels blending		
5	General Operations	Spent lamps and batteries (Univ. Waste)	varies		USA Lamp	recycled	
6	Maintenance	Rags	varies. Rags accumulated in container in print shop.		Cintas Cincinnati, Laundered	laundered	
7							
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REMARKS-GENERAL INFORMATION

General Process Information:

Rocal manufactures highway and traffic signs at their second (new) plant approx. 1.5 miles from downtown Frankfort and their old (first) plant. Coiled and extruded aluminum is purchased by Rocal. Mill coating on aluminum is removed in Rocal's chromate conversion process, which chemically degrades the aluminum to prevent oxidizing and prepares it for adhesion. Reflective sheeting is applied to signs, silk screening or hand applied letters are used, and the signs are then shipped. The screen printing process has a screen reclamation area where screens are cleaned with a variety of water soluble screen washing products, which are either sprayed on (in a spray booth) or applied by hand with rags, and then power washed off in the spray booth. Wastewater from this process is sent to the Frankfort POTW. Waste ink is generated in the print shop.

Rinsewater from Rocal's closed loop chromate conversion process is treated by an evaporator unit piped into the conversion line. Filter cake (2007) is generated in the evaporator. Prior to installing the evaporator, Rocal removed the rinsewater (D002/D0007), placed it in 350 gallon totes and

PROCESS, WASTE, P2 SUMMARY SHEET

Facility Name: Rocal (new/second) Facility Type: LQG SQG CESQG TSD Date of Inspection: 6/26/07 EPA ID#: OHD990807777

Waste Generated			On- or Off-Site Management		P2 Activities	
Process/Activity Generating Waste (e.g. plating bath, machining, baghouse, painting; general maintenance, etc)	Waste Description (e.g. sludge, solvent, ash, used oil, spent lamps, etc.) and EPA Waste Code, if applic.	QTY Generated per Month, Type of Accumulation (container, tank, etc) and location of waste accumulation area	Type of On-Site Treatment (recycle, wwt, etc)	Name, state, and type of activity occurring at the off-site facility.	Current P2 Activities	P2 Opportunities
1 Chromate Conversion	filter cake from evaporator on chromate conversion line D007	Approximately 55-gal per month accumulated in drums at evaporator. During inspection, six drums were onsite, thus LQG rules were triggered		Heritage Environmental, Indianapolis		
2 Chromate Conversion	rinse water from two rinse tanks on chromate conversion line D002/D007	2- 1/2 350-gal. totes (approx 850 gallons) are stored next to chromate conversion line. Company says this may be episodically generated in future.	If accumulated for less than ninety days, generator treatment may occur in evaporator.	Has been stored onsite since last inspection in June, 2006. Not yet sent offsite for disposal. If accumulated for less than ninety days, generator treatment may occur in evaporator.		Future rinse water may be reusable as raw material in the chromate conversion process at the old Rocal plant. OEPA will need to make determination of this.
3 Chromate Conversion	Decanted crystalline liquid from evaporator D002/D007	varies; 1 55-gal drum is currently on-site. May be episodically generated when evaporator is not	same as above	same as above		Will be treated in the evaporator within 90 days of generation

sent it offsite for disposal by having it transported by Fed Ex to their old Rocal plant, where it was stored in a tank prior to disposal. This activity is the subject of a current enforcement case. Alternatively, Rocal stored the rinsewater onsite in totes for up to a year until it could be either treated in their evaporator or manifested offsite as a hazardous waste. This will also be subject to enforcement.

Regulatory/Enforcement History (if applicable):

The company's activities have been the subject of an escalated enforcement action since July 2006. The enforcement case involves both the new and old plants, and the Fed Ex Corporation Findings and Orders are anticipated for both the new and old plants.

Additional P2 remarks and information:

Rocal would like assistance with minimizing waste from their screen printing/washing process. This information was forwarded to the OCAPP who contacted them in July 07 and will be making plans to assist them.

Rocal requested information on whether rinsewater generated in the chromate conversion process in the new Rocal facility be used as raw material in tank #3 in the chromate conversion process in the old Rocal facility. Rocal was instructed to put this request in writing for a formal response from the DHWM.

Would this facility be interested in a P2 assessment? Yes* No *If yes, refer promptly to your district P2 coordinator.

Office of Compliance Assistance and Pollution Prevention - 1-800-329-7518 or p2mail@epa.state.oh.us or www.epa.state.oh.us/ocapp/ocapp.html

Other:

PROCESS, WASTE, P2 SUMMARY SHEET

Facility Name: Rocal (old/first) Facility Type: episodic LQG Date of Inspection: 6/26/07

EPA ID#: OHD981153601

Waste Generated			On- or Off-Site Management		P2 Activities	
Process/Activity Generating Waste (e.g. plating bath, machining, baghouse, painting, general maintenance, etc)	Waste Description (e.g. sludge, solvent, ash, used oil, spent lamps, etc.) and EPA Waste Code, if applic.	QTY Generated per Month, Type of Accumulation (container, tank, etc) and location of waste accumulation area	Type of On-Site Treatment (recycle, wwt, etc)	Name, state, and type of activity occurring at the off-site facility.	Current P2 Activities	P2 Opportunities
1 Chromate Conversion	Phosphoric Acid cleaning bath D002	Varies; 55-gallons per cleaning, in drums.		Heritage Environmental, Indianapolis		
2 Chromate Conversion	Rinsewater D002/D007	Episodic generation of 4500 – 5000 gallons		Heritage Environmental, Indianapolis		
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REMARKS-GENERAL INFORMATION

General Process Information:

Rocal operates a chromate conversion process line in the old (first) Rocal plant in downtown Frankfort. Despite the fact that the rest of this old plant has been shut down (but has not yet been CRO'ed) and a new plant opened, this chromate conversion line, which consists of 6 open tanks, has remained open for treatment of aluminum 48" or larger. Rocal's new plant located on County Road 550 is able to treat smaller aluminum sizes. Eventually the company will close this process and CRO the old plant. LQG waste is episodically generated from the old plant.

The chromate conversion process consists of tank #1: a heated phosphoric acid cleaner (5%); tank #2: a cold H2O rinse; tank #3: a chromate coating tank; tank #4: a cold water rinse; and tank #5: another cold rinse tank. Tank #6, according to plant owner Bob Leitle, in a telephone call on 6/28/06, was originally installed to be used as a "spare tank made of steel that was used only during maintenance of other tanks and during emergencies". (see telephone note of 6/28/06 with Rocal). Tank #6 is where hazardous waste from the new Rocal was being stored prior to manifesting offsite. This is the subject of a current enforcement case. During the 2007 inspection, the unpermitted storage of hazardous waste in this tank was no longer occurring. However, tank #6 was being used for the final rinsing of aluminum treated in tanks 1 through 5, and therefore, tank #6 did contain liquid.

Regulatory/Enforcement History (if applicable):

See above.

Additional P2 remarks and information:

Rocal requested information on whether rinsewater generated from the chromate conversion process from the new Rocal facility could be used as raw material in tank #3 in the chromate conversion process at the old Rocal facility. Rocal was instructed to put this request in writing for a formal response from the DHWM.

Rocal would like assistance with minimizing waste from their screen printing/washing process. This information was forwarded to the OCAPP who contacted them in July 07 and will be making plans to assist them.

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

Other:

LARGE QUANTITY GENERATOR REQUIREMENTS

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.

GENERAL REQUIREMENTS

1. Have all wastes generated at the facility been adequately evaluated? [3745-52-11] **Three wastes were not properly evaluated and do not contain the proper waste codes.** Yes No NA
2. Has the generator obtained a U.S. EPA identification number? [3745-52-12] Yes No NA
3. Were annual reports filed with Ohio EPA on or before March 1st? [3745-52-41(A)] Yes No NA
4. 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 NA
5. 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 NA
6. Does the generator accumulate hazardous waste? Yes No NA
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.
7. 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)? **Three 350 gal. totes (approx. 800 gallons) of D002/D007 were stored onsite for greater than 90 days.** Yes No NA
NOTE: If F006 waste is generated and accumulated for > 90 days and is recycled see 3745-52-34(G) & (H).
8. 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 NA
 - b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97 (C) **Company treats accumulated D002/D007 in the evaporator tank.** Yes No NA
 - c. Drip pads that meet 3745-69-40 to 3745-69-45? Yes No NA
 - d. Containment building that meets 3745-256-100 to 3745-256-102? Yes No NA*NOTE: Complete appropriate checklist for each unit.*
NOTE: If waste is treated to meet LDRs, use LDR checklist.
9. Does the generator export hazardous waste? If so: Yes No NA
 - a. Has the generator notified U.S. EPA of export activity? [3745-52-53(A)] Yes No NA
 - b. Has the generator complied with special manifest requirements? [3745-52-54] Yes No NA
 - c. For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55] Yes No NA
 - d. Has an annual report been submitted to U.S. EPA? [3745-52-56] Yes No NA
 - e. Are export related documents being maintained on-site? [3745-52-57(A)] Yes No NA

MANIFEST REQUIREMENTS

10. Have all hazardous wastes shipped off-site been accompanied by a manifest?
(U.S. EPA Form 8700-22) [3745-52-20(A)] Yes No NA
11. Have items (1) through (20) of each manifest been completed? [3745-52-20(A)] Yes No NA
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)]
12. Does each manifest designate at least one facility which is permitted to handle the waste?
[3745-52-20(B)] Yes No NA
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)].
13. 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 NA
14. Have the manifests been signed by the generator and initial transporter?
[3745-52-23(A)(1) & (2)] Yes No NA
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.
15. 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 NA
16. 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 NA
17. Are signed copies of all manifests and any exception reports being retained for at least three years? [3745-52-40] Yes No NA
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

18. 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 NA
19. 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 NA
20. Is the personnel training program directed by a person trained in hazardous waste management procedures? [3745-65-16(A)(2)] Yes No NA

21. 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 NA
22. Does the generator provide annual refresher training to employees? [3745-65-16(C)] Yes No NA
23. Does the generator keep records including: job titles [D(1)], job descriptions [D(2)], type and amount of training given to each person [D(3)] and documentation of completed training or job experience required [D(4)]? [3745-65-16(D)] Yes No NA
24. 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 NA

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 Manifests, etc.

Job Performed

Name of Employee

Date Trained

CONTINGENCY PLAN

25. 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)]. **Contingency plan violations were cited in 6/14/07 NOV** Yes No NA
26. 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 NA
 - b. Arrangements with emergency authorities [3745-65-52(C)]. Yes No NA
 - 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)] **This violation was cited in the 6/14/07 NOV.** Yes No NA
 - d. A list of all emergency equipment, including: location, a physical description and brief outline of capabilities? [3745-65-52(E)] Yes No NA
 - e. An evacuation plan for facility personnel where there is possibility that evacuation may be necessary? [3745-65-52(F)] Yes No NA

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)]

27. 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 NA
28. 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 NA
29. Is an emergency coordinator available at all times (on-site or on-call)? [3745-65-55] Yes No NA

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

30. Has there been a fire, explosion or release of hazardous waste or hazardous waste constituents since the last inspection? If so: Yes No NA
- a. Was the contingency plan implemented? [3745-65-51(B)] Yes No NA
- b. Did the facility follow the emergency procedures in 3745-65-56(A) through (H)? Yes No NA
- 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 NA
- 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

31. Is the facility operated to minimize the possibility of fire, explosion, or any unplanned release of hazardous waste? [3745-65-31] Yes No NA
32. 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 NA
- b. Emergency communication device? [3745-65-32(B)] Yes No NA
- c. Portable fire control, spill control and decon equipment? [3745-65-32(C)] Yes No NA
- d. Water of adequate volume/pressure? [3745-65-32(D)] Yes No NA
- NOTE: Verify that the equipment is listed in the contingency plan.*
33. Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33] Yes No NA
34. Are emergency equipment tests (inspections) recorded in a log or summary? [3745-65-33] Yes No NA
35. 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 NA
36. 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 NA
37. Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35] Yes No NA
38. Has the generator attempted to familiarize emergency authorities with possible hazards and facility layouts? [3745-65-37(A)] Yes No NA
39. Where authorities have declined to enter into arrangements or agreements, has the generator documented such a refusal? [3745-65-37(B)] Yes No NA

SATELLITE ACCUMULATION AREA REQUIREMENTS

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

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

42. Has the generator marked containers with the words "Hazardous Waste?" [3745-52-34(A)(3)]. Yes No NA
None of the six drums of D002/D007 filter cake were labeled.
43. Is the accumulation date on each container? [3745-52-34(A)(2)] Yes No NA
44. Are hazardous wastes stored in containers which are:
- a. Closed (except when adding/removing wastes)? [3745-66-73(A)]. **Several of the drums of filter cake were not closed.** Yes No NA
- b. In good condition? [3745-66-71] Yes No NA
- c. Compatible with wastes stored in them? [3745-66-72] Yes No NA
- d. Handled in a manner which prevents rupture/leakage? [3745-66-73(B)] Yes No NA
45. Is the container accumulation areas(s) inspected weekly? [3745-66-74] Yes No NA
Note: Per ORC§1.44(A) "Week" means seven (7) consecutive days.

- a. Are inspections recorded in a log or summary? [3745-66-74] Yes No NA
46. 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 NA
47. 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 NA
48. 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 NA
49. 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 NA

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.

50. 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 NA

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

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

REMARKS

LDR REQUIREMENTS

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: **Unknown. Rocal failed to provide LDR forms for all wastes it generates.** Yes No NA
- a. For determinations based solely on knowledge of the waste: Is supporting data retained on-site? [3745-270-07(A)(6)] **Unknown. See above.** Yes No NA
- b. For determinations based upon analytical testing: Is waste analysis data retained on-site? [3745-270-07(A)(6)] **Unknown. See above.** Yes No NA
2. Has the generator determined each EPA hazardous waste code applicable to the waste? [3745-270-07(A)(2) see Table 1] **Unknown. See above.** Yes No NA
3. Has the generator determined the correct "treatability group(s)" (e.g., wastewater, non-wastewater, etc.)? [3745-270-07(A), Table 1] **Unknown. See above.** Yes No NA
4. Does the generator generate a characteristic hazardous waste? If so: Yes No NA
- a. Have all underlying hazardous constituents (UHCs) been identified? [3745-270-09(A)] **Unknown. See above.** Yes No NA

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 NA
- 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 NA

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)] **Unknown. Rocal failed to provide information on all wastes it generates.** Yes No NA

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] **Unknown** Yes No NA

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 NA

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 Yes No NA

LDR treatment standards for lead? [3745-270-03(D)]

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 NA
- a. The facility can dispose of hazardous waste in a on-site landfill or surface impoundment.[3745-270-05] Yes No NA
11. Does the facility have an extension to allow for a restricted waste to be land disposed?[3745-270-06] If so: Yes No NA
- a. The facility can land dispose of the waste. [3745-270-06] Yes No NA
12. Does the facility treat wastes that are otherwise prohibited from land disposal, in a surface impoundment? Yes No NA
If so:
- a. Has the facility complied with 3745-270-04? Yes No NA

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)] **Unknown** Yes No NA
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)] **Unknown** Yes No NA
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 NA
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 NA
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 NA
- 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 NA

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)] **Unknown** Yes No NA

REMARKS

GENERATORS TREATING HAZARDOUS WASTE

- 1. Is treatment of hazardous waste occurring to meet the treatment standards in 3745-270-40? **Unknown. LDR forms for filter cake (D007) were not provided.** Yes No NA
- 2. If so, does the generator have a waste analysis plan containing the following requirements? [3745-270-07(A)(5)] Yes No NA
 - a. A detailed chemical and physical analysis of a representative sample of the wastes being treated? [3745-270-07(A)(5)(a)] **See above** Yes No NA
 - 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)] **See above** Yes No NA
- 3. Is the WAP on-site in the facility's files and available to inspectors? [3745-270-07(A)(5)(b)] **See above** Yes No NA
- 4. Has the generator followed their WAP [3745-270-07(A)(5)]? **See above** Yes No NA
- 5. Have the treated wastes met the applicable treatment standards in 3745-270-40? **See above** Yes No NA
- 6. Has the generator sent a notification and certification with the initial shipment of waste? [3745-270-07(A)(5)(c)] **See above** Yes No NA
- 7. Does each notification/certification form completed, contain the information found in Table 1 of 3745-270-07? [3745-270-07(A)(5)(c)] **See above** Yes No NA
- 8. Has the generator, who is treating a characteristic waste, submitted a notification and certification to the director which contains the following: **See above** Yes No NA
 - a. Name and address of the facility receiving the waste? [3745-270-09(D)(1)(a)] **See above** Yes No NA
 - b. A description of the waste, including EPA hazardous waste codes and treatability group, and UHCs? [3745-270-09(D)(1)(b)] **See above** Yes No NA

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: **See above** Yes No NA
 - a. Has the notification and certification been updated in the generators and treaters files? [3745-270-09(D)] **See above** Yes No NA
 - b. Has the director been notified of such changes? [3745-270-09(D)] **See above** Yes No NA

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 NA
 - 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 NA
- 11. Does each notification/certification form completed, contain the information found in Table 1? [3745-270-07(A)(3)] Yes No NA

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 NA
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 NA
3. Is the hazardous debris being treated by the alternative treatment standards in 3745-270-45? If so: Yes No NA
 - 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 NA

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 NA
 - a. Was immobilization the last treatment technology used? [3745-270-45(A)(3)] Yes No NA
5. Is the waste a PCB waste under 40 CFR Part 761? If so: Yes No NA
 - 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 NA
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 NA
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 NA
 - a. Records of all inspections, evaluations, and analyses of treated debris? [3745-270-07(D)(3)(a)] Yes No NA
 - b. Records of key operating parameters of the treatment unit? [3745-270-07(D)(3)(b)] Yes No NA
 - 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 NA
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 NA
 - a. Name and address of licensed solid waste landfill receiving the treated debris? [3745-270-07(D)(1)(a)] Yes No NA
 - b. Description of hazardous debris as initially generated with applicable waste codes? [3745-270-07(D)(1)(b)] Yes No NA
 - c. Technology used from Table 1? [3745-270-07(D)(1)(c)] Yes No NA
9. Has the above notification been sent to the director? [3745-270-07(D)(1)] Yes No NA

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)] **Unknown** Yes No NA
- 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)] **Unknown** Yes No NA

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)] **Unknown** Yes No NA
- 4. Are wastes or treatment residues being sent to another TSD to be further managed? Yes No NA
If so:
 - a. Has the facility complied with the generator notification/certification requirements? [Table 1, 3745-270-07(B)(5)] Yes No NA
- 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 NA
 - b. Has the treatment facility (recycler) sent a certification found in 3745-270-07(B)(4)[3745-270-07(B)(6)] Yes No NA
 - c. Has a copy of the notification and certification been sent to the director? [3745-270-07(B)(6)] Yes No NA
- 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 NA
- 7. Does the owner or operator of any land disposal facility disposing of waste subject to regulation under 3745-270 have: **Unknown** Yes No NA
 - a. Copies of all notices and certifications required in 3745-270? Yes No NA
 - 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 NA
 - c. The testing frequency specified in the facility's WAP and have they followed the protocol? Yes No NA

REMARKS

TANK SYSTEM REQUIREMENTS (OAC rule 3745-52-34(A) and OAC rules 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
The evaporator tank, which is piped into the chromate conversion line, but also used to generator treat accumulated D002/D007 rinsewater, is not labeled with the words "hazardous waste".

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)] **Unknown** 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)] **Unknown** 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)] **Unknown** 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: **Unknown**
- a. Spill control equipment each operating day? [3745-66-95(A)(1)] **Unknown** Yes No N/A
- b. Above ground portion of tank each operating day?[3745-66-95(A)(2)] **Unknown** Yes No N/A
- c. Data from leak detection equipment each operating day?[3745-66-95(A)(3)] **Unknown** 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)] **Unknown** 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)] **Unknown** Yes No N/A
5. Where applicable, all sources of impressed current at least bi-monthly?[3745-66-95(B)(2)] **Unknown** Yes No N/A

TANK SYSTEM CLOSURE REQUIREMENTS

6. 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). Yes No N/A

TANK SYSTEMS STORING IGNITABLE OR REACTIVE WASTES

7. For tanks used or 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

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- 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)] **Unknown** 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)] **Unknown** 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.

12. Does the written assessment include the following: [3745-66-92(A)] **Unknown**
- a. Certification by an independent registered, professional engineer? [3745-66-92(A)] **Unknown** Yes No N/A
 - b. Consideration of the design standards of the system? [3745-66-92(A)] **Unknown** Yes No N/A
 - c. Consideration of the hazardous characteristics of the waste(s)? [3745-66-92(A)] **Unknown** Yes No N/A
 - d. An evaluation by a corrosion expert (if the external system/components are metal)? [3745-66-92(A)] **Unknown** Yes No N/A
 - e. A determination of design and operational measures that will be needed to protect the tank system from potential damage (for underground tank components)? [3745-66-92(A)] **Unknown** 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)] **Unknown** Yes No N/A
 - g. Design considerations for anchoring the unit to prevent floatation (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 (for underground tank systems)? [3745-66-92(A)] **Unknown** 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)] **Unknown** 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)] **Unknown** Yes No N/A
 - b. Statement that deficiencies were corrected before the tank system was covered or put into use? [3745-66-92(B)] **Unknown** Yes No N/A
 - c. Proper backfilling? [3745-66-92(C)] **Unknown** Yes No N/A
 - d. Tightness test; if the tank was found not to be tight, does the statement indicate that proper repairs were made? [3745-66-92(D)] **Unknown** Yes No N/A
 - e. Proper support and protection of ancillary equipment? [3745-66-92(E)] **Unknown** Yes No N/A
 - f. Supervision of the installation of field fabricated corrosion protection? [3745-66-92(F)] **Unknown** Yes No N/A

SECONDARY CONTAINMENT

14. Has secondary containment been provided? **Unknown** 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: **Unknown** Yes No N/A
- a. An **External Liner**? [3745-66-93(E)(1)] If so, Yes No N/A
 - 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) Yes No N/A

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- 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, **Unknown** Yes No N/A
- 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
- v. For ignitable or reactive waste: Is the vault system provided with means to prevent 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, **Unknown** Yes No N/A
- 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)] **Unknown** 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)] **Unknown** Yes No N/A
17. Does the secondary containment system meet the following minimum requirements of [3745-66-93(C)]: **Unknown**
- 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)? **Unknown** 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

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- 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. Immediately conduct a visual inspection of the release? [3745-66-96(C)] Yes No N/A
- e. Prevent further migration of the leak or spill to soils or surface waters? [3745-66-96(C)] Yes No N/A
- f. Properly dispose of any visibly contaminated soil or surface water? [3745-66-96(C)] Yes No N/A
- g. Report the release 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. 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 (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? **If so,** Yes No N/A
- 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,** Yes No N/A
- 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

**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 NA
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 NA

WASTE MANAGEMENT - LABELING/MARKING

UNIVERSAL WASTE BATTERIES

3. Are batteries that show evidence of leakage spillage or damage that could cause leaks contained? [3745-273-13(A)(1)] **During the inspection, there was no universal waste stored onsite, as an offsite shipment had just occurred.** Yes No NA
4. If batteries are contained, are the containers closed and structurally sound, compatible with the contents of the batteries, and lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(A)(1)] Yes No NA
5. Does the SQUWH conduct any of the following activities:
- a. Sort batteries by type? Yes No NA
 - b. Mix battery types in one container? Yes No NA
 - c. Discharge batteries to remove the electric charge? Yes No NA
 - d. Regenerated used batteries? Yes No NA
 - e. Disassemble them into individual batteries or cells? Yes No NA
 - f. Remove batteries from consumer products? Yes No NA
 - g. Remove the electrolyte from the battery? Yes No NA
- If so, are the casings of the batteries breached, not intact, or open (except to remove the electrolyte)? [3745-273-13(A)(2)]
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 NA
- 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 NA
 - 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 NA

7. Are the batteries or containers of batteries labeled with the words "Universal Waste - Batteries" or "Waste Batteries" or "Used Batteries"? [3745-273-14(A)]

Yes No NA

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)] **During the inspection, there was no universal waste stored onsite, as an offsite shipment had just occurred.**

Yes No NA

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)] **During the inspection, there was no universal waste stored onsite, as an offsite shipment had just occurred.**

Yes No NA

10. Are the lamps or containers or packages of lamps labeled with the words "Universal Waste - Lamps" or "Waste Lamps" or "Used Lamps"? [3745-273-14(E)]

Yes No NA

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

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

11. Is the waste accumulated for less than one year? [3745-273-15(A)]
If not:

Yes No NA

- 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 NA

12. Is the length of time the universal waste is stored documented by one of the following: [3745-273-15(C)]

Yes No NA

- 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 NA

- 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 NA

- 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 NA

- 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 NA
- 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 NA
- 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 NA

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 NA

RESPONSE TO RELEASES

14. Are releases of universal waste and other residues immediately contained? [3745-273-17(A)] Yes No NA
15. Is the material released characterized? [3745-273-17(B)] Yes No NA
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 NA

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 NA

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 NA
19. Prior to shipping universal waste off-site, does the receiver agree to receive the shipment? [3745-273-18(D)] Yes No NA
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 NA

- b. Agree to where the shipment will be sent?
[3745-273-18(E)(2)] Yes No NA
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 NA
- a. Sending the waste back to the originating handler?
[3745-273-18(F)(1)] Yes No NA
- b. Sending the shipment to a destination facility? (If both the originating and receiving handler agree) [3745-273-18(F)(2)] Yes No NA
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 NA
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 NA

EXPORTS

24. Is waste being sent to a foreign destination? If so: Yes No NA
- 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 NA
- 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 3745-52-57? [3745-273-20(B)] Yes No NA
- c. Is a copy of U.S. EPA's "Acknowledgment of Consent" provided to the transporter? [3745-273-20(C)] Yes No NA

REMARKS