Final

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

RESOURCE CONSERVATION AND RECOVERY ACT PERMIT

Facility Name and Location: **Arcwood Environmental – East Liverpool, Inc.**
1250 Saint George Street
East Liverpool, Ohio 43920

Owner: **Arcwood Environmental – Thermal, LLC.**
1250 Saint George Street
East Liverpool, Ohio 43920

Operator: **Arcwood Environmental – Thermal, LLC.**
1250 Saint George Street
East Liverpool, Ohio 43920

U.S. EPA Identification Number: **OHD 980 613 541**

Effective Date: **April 29th, 2026**

Expiration Date: **April 29th, 2036**

Authorized Activities:

The U.S. Environmental Protection Agency (EPA) hereby issues a Resource Conservation and Recovery Act (RCRA) permit (hereinafter referred to as the "permit") to Arcwood Environmental – East Liverpool, Inc. (addressed in the second person as "you" or "Permittee") in connection with the hazardous waste management operations at the Arcwood Environmental – East Liverpool, Inc., located in East Liverpool, Ohio.

This permit is issued under the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984 (42 United States Code (U.S.C.) § 6901 *et seq*.) (collectively referred to as "RCRA") and EPA's regulations promulgated thereunder (codified, and to be codified, in Title 40 of the Code of Federal Regulations (40 C.F.R.)).

Specifically, this permit addresses air emission standards, including monitoring and recordkeeping requirements, for equipment leaks, tanks, containers, and miscellaneous units. See 40 C.F.R. Part 264, Subparts BB and CC.

According to Arcwood's RCRA Part B Permit Application, this facility currently does not operate process vents as defined in 40 C.F.R. Part 264, Subpart AA, Air Emission Standards for Process Vents. Therefore, this permit does not set forth Subpart AA requirements and the RCRA permit does not include process vents.

The RCRA permit consists of both this permit, which contains the effective federal RCRA permit conditions, and the effective State RCRA permit conditions issued by the State of Ohio's RCRA program authorized under 40 C.F.R. Part 271 (hereinafter called the "State RCRA permit"). Any hazardous waste activity which requires a RCRA permit and is not included in the RCRA permit is prohibited.

The State issued a RCRA permit on January 17, 2019. The effective date and expiration date of the State RCRA permit are January 17, 2019, and January 17, 2029, respectively.

Permit Approval:

On June 30, 1989, the State of Ohio received final authorization according to Section 3006 of RCRA, 42 U.S.C. § 6926, and 40 C.F.R. Part 271, to administer the pre-HSWA RCRA hazardous waste program. The State of Ohio has also received final authorization to administer certain additional RCRA requirements on several occasions since then. However, because EPA has not yet authorized the State of Ohio to administer certain HSWA regulations, including the air emission standards for equipment leaks (40 C.F.R. Part 264, Subpart BB) and tanks and miscellaneous units (40 C.F.R. Part 264, Subpart CC), EPA is issuing the RCRA permit requirements for operations at your facility which fall under these regulations.

You must comply with all terms and conditions contained in this permit. This permit consists of all the conditions contained herein, the documents attached hereto, all documents cross-referenced in these documents, approved submittals (including plans, schedules and other documents), the applicable regulations in 40 C.F.R. Parts 124, 260, 261, 262, 264, 268, 270, and applicable provisions of RCRA.

This permit is based on the assumption that the information submitted in your RCRA Part A and B Permit Renewal Application dated October 23, 2018 and Federal RCRA (Subparts BB and CC Permit Compliance Certification dated November 27, 2018 and all other revisions and addendums to that application (hereinafter referred to as the "Part B Permit Application") is accurate and the facility is configured, operated and maintained as specified in the Part B Permit Application and other relevant documents.

Any inaccuracies in the submitted information may be grounds for EPA to terminate, revoke and reissue, or modify this permit in accordance with 40 C.F.R. §§ 270.41, 270.42 and 270.43; and for enforcement action. You must inform EPA of any deviation from, or changes in, the information in the Part B Permit Application and other pertinent documents that might affect your ability to comply with the applicable regulations or conditions of this permit.

Opportunity to Appeal:

Petitions for review must be submitted within 30 days after EPA serves notice of the final permit decision. Any person who filed comments on the draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision. Any person who failed to file comments or failed to participate in the public hearing on the draft permit may file a petition for review only to the extent of the changes from the draft to the final permit decision. The procedures for permit appeals are found in 40 C.F.R. § 124.19.

Effective Date:

This permit is effective as of **April 29th, 2026** and will remain in effect until **April 29th, 2036**, unless revoked and reissued under 40 C.F.R. § 270.41, terminated under 40 C.F.R. § 270.43, or continued in accordance with 40 C.F.R. § 270.51(a).

By: DARREN IRELAND Digitally signed by DARREN IRELAND Date: 2026.03.30 14:08:18 -05'00' Date: 3/30/26

D. Scott Ireland
Acting Director
Land, Chemicals, and Redevelopment Division

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SECTION I—STANDARD PERMIT CONDITIONS

I.A EFFECT OF PERMIT

This permit contains the federal RCRA permit conditions. You also have an effective State of Ohio RCRA permit. You are hereby allowed to manage hazardous waste at Arcwood Environmental – East Liverpool, Inc. ("facility") in accordance with this permit and the effective State RCRA permit. Your storage and treatment of RCRA hazardous waste must comply with all terms and conditions in this permit. Other aspects of the storage, treatment, and disposal of RCRA hazardous wastes are subject to the conditions in the State-issued portion of the RCRA permit. Any hazardous waste activity which requires a RCRA permit and is not included either in this permit or the State RCRA permit, is prohibited.

Subject to 40 C.F.R. § 270.4, compliance with the RCRA permit during its term constitutes compliance, for purposes of enforcement, with Subtitle C of RCRA except for those requirements not included in the permit which: (1) become effective by statute; (2) are promulgated under 40 C.F.R. Part 268 restricting the placement of hazardous waste in or on the land; (3) are promulgated under 40 C.F.R. Part 264 regarding leak detection systems; or (4) are promulgated under Subparts AA, BB, or CC of 40 C.F.R. Part 265 limiting air emissions. (40 C.F.R. § 270.4).

This permit does not: (1) convey any property rights or any exclusive privilege (40 C.F.R. § 270.30(g)); (2) authorize any injury to persons or property, or invasion of other private rights; or (3) authorize any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued, or any action brought, under: (1) Sections 3008(a), 3008(h), 3013, or 7003 of RCRA; (2) Sections 104, 106(a), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. §§ 9601 *et seq.* (commonly known as "CERCLA"); or (3) any other law protecting public health or the environment.

I.B PERMIT ACTIONS

I.B.1 Permit Review, Modification, Revocation and Reissuance, and Termination

EPA may review, modify, or revoke and reissue this permit, or terminate it for cause, as specified in 40 C.F.R. §§ 270.41, 270.42, and 270.43. EPA may also review and modify this permit, consistent with 40 C.F.R. § 270.41, to include any terms and conditions it determines are necessary to protect human health and the environment under Section 3005(c)(3) of RCRA. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated

noncompliance on your part will not stay the applicability or enforceability of any permit condition. (40 C.F.R. § 270.30(f)).

You may request a modification of this permit under the procedures specified in 40 C.F.R. § 270.42. A Class 1 modification is generally allowed without prior approval by EPA, except under certain conditions as described in 40 C.F.R. § 270.42(a)(2). A Class 2 modification requires prior approval by EPA as described in 40 C.F.R. § 270.42(b). You must not perform any construction associated with a Class 3 permit modification request until such modification request is granted and the modification becomes effective.

You may perform construction associated with a Class 2 permit modification request beginning 60 calendar days after submission of the request, unless the Director establishes a later date. (40 C.F.R. § 270.42(b)(8)). (Pursuant to Chapter 8-6 of the Region 5 Delegation Manual, the authority assigned to the Regional Administrator as Director under 40 C.F.R. § 270.42(b)(8) has been delegated to the Director of the Land, Chemicals and Redevelopment Division of EPA, Region 5. Thus, for the purposes of this permit, the term Director must refer to the Division Director of EPA Region 5's Land, Chemicals and Redevelopment Division). Procedures for a Class 3 modification are specified in 40 C.F.R. § 270.42(c).

I.B.2 Permit Renewal

This permit may be renewed as specified in 40 C.F.R. § 270.30(b) and Section I.E.2 of this permit. In reviewing any application for a permit renewal, EPA will consider improvements in the state of control and measurement technology, and changes in applicable regulations. (40 C.F.R. § 270.30(b) and RCRA Section 3005(c)(3)).

I.C SEVERABILITY

This permit's provisions are severable. If any permit provision, or the application of any permit provision to any circumstance, is held invalid, such provision's application to other circumstances and the remainder of this permit will not be affected. Invalidation of any statutory or regulatory provision on which any condition of this permit is based does not affect the validity of any other statutory or regulatory basis for that condition. (40 C.F.R. § 124.16(a)).

I.D DEFINITIONS

The terms used in this permit will have the same meaning as in 40 C.F.R. Parts 124, 260 through 266, 268 and 270, unless this permit specifically provides otherwise. Where neither the regulations nor the permit define a term, the term's definition will be the

standard dictionary definition or its generally accepted scientific or industrial meaning.

I.E DUTIES AND REQUIREMENTS

I.E.1 Duty to Comply

You must comply with all conditions of this permit, except to the extent and for the duration for which an emergency permit authorizes such noncompliance (40 C.F.R. § 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of RCRA and will be grounds for: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (40 C.F.R. § 270.30(a)).

I.E.2 Duty to Reapply

If you wish to continue an activity this permit regulates after its expiration date, you must apply for and obtain a new permit. You must submit a complete application for a new permit at least 180 calendar days before the permit expires, unless the Director grants permission for a later date. The Director will not grant permission to submit the complete application for a new permit later than the permit's expiration date.
(40 C.F.R. §§ 270.10(h) and 270.30(b)).

I.E.3 Permit Expiration

Unless revoked or terminated, this permit and all conditions herein will be effective until 10 years from the effective date of the final permit. This permit and all conditions herein will remain in effect beyond the permit's expiration date if you have submitted a timely, complete application (40 C.F.R. § 270.10 and §§ 270.13 through 270.29), and, through no fault of your own, the Director has not made a final determination regarding permit reissuance. (40 C.F.R. §§ 270.50 and 270.51).

I.E.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, you are not entitled to a defense that it would have been necessary to halt or reduce the permitted activity to maintain compliance with this permit. (40 C.F.R. § 270.30(c)).

I.E.5 Duty to Mitigate

In the event of noncompliance with this permit, you must take all reasonable steps to minimize releases to the environment resulting from the noncompliance and must implement all reasonable measures to prevent significant adverse impacts on human

health or the environment. (40 C.F.R. § 270.30(d)).

I.E.6 Proper Operation and Maintenance

You must always properly operate and maintain all facilities and treatment and control systems (and related appurtenances) that you install or use to comply with this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires you to operate back-up or auxiliary facilities or similar systems only when necessary to comply with this permit. (40 C.F.R. § 270.30(e)).

I.E.7 Duty to Provide Information

You must provide the Director, within a reasonable time, any relevant information that the Director requests to determine whether there is cause to modify, revoke and reissue, or terminate this permit, or to determine permit compliance. You must also provide the Director, upon request, with copies of any records this permit requires.

I.E.8 Inspection and Entry

Upon the presentation of credentials and other legally required documents, you must allow the Director or an authorized representative to:

I.E.8.a Enter at reasonable times upon your premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;

I.E.8.b Have access to and copy, at reasonable times, any records that you must keep under the conditions of this permit;

I.E.8.c Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

I.E.8.d Sample or monitor any substances at any location at reasonable times, to assure permit compliance or as RCRA otherwise authorizes.

Notwithstanding any provision of this permit, EPA retains the inspection and access authority which it has under RCRA and other applicable laws. (40 C.F.R. § 270.30(i)).

I.E.9 Monitoring and Records

I.E.9.a Samples and measurements you take for monitoring purposes must be representative of the monitored activity. The methods you use to obtain a representative sample of the feed streams, treatment residues, or other hazardous wastes to be analyzed must be the appropriate methods from Appendix I of 40 C.F.R. Part 261, or the methods specified in the "Waste Characteristics" section of your facility RCRA Part B Permit Application, or an equivalent method approved by the Director. Laboratory methods you employ or use must be those specified in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846, latest edition), *Methods for Chemical Analysis of Water and Wastes* (EPA 600/4-79-020), or an equivalent method, as specified in the referenced Waste Characteristics. (40 C.F.R. § 270.30(j)(1)).

I.E.9.b You must retain, at the facility, all records as specified in 40 C.F.R. § 264.74.

I.E.9.c You must submit all monitoring results at the intervals specified in this permit.

I.E.9.d You must retain all reports, records, or other documents, required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the reports, records, or other documents, unless a different period is specified in this permit. The 3-year period may be extended by request of the Director at any time and is automatically extended during the course of any unresolved enforcement action regarding this facility. (40 C.F.R. §§ 270.30(j) and 270.31).

I.E.9.e The records for monitoring information shall include:

I.E.9.e.i The date, exact place, and time of sampling or measurements;

I.E.9.e.ii The individual(s) who performed the sampling or measurements;

I.E.9.e.iii The date(s) analyses were performed;

I.E.9.e.iv The individual(s) who performed the analyses;

I.E.9.e.v The analytical techniques or methods used; and

I.E.9.e.vi The results of such analyses.

I.E.10 Reporting Planned Changes

You must notify the Director as soon as possible of any planned physical alterations or additions to the permitted facility. (40 C.F.R. § 270.30(l)(1)).

I.E.11 Reporting Anticipated Noncompliance

You must notify the Director, in advance, of any planned changes in the permitted facility or activity that may result in permit noncompliance. Advance notice will not constitute a defense for any noncompliance. (40 C.F.R. § 270.30(l)(2)).

I.E.12 Certification of Construction

You must not operate any RCRA air emission control devices completed after the effective date of this permit until you have submitted to the Director, by certified mail or hand-delivery, a letter signed both by your authorized representative and by a registered professional engineer, in accordance with 40 C.F.R. § 270.30(l)(2)(i). That letter must state that the portions of the facility covered by this permit have been constructed in compliance with the applicable conditions of this permit. In addition, you must not operate the permitted control devices until either.

I.E.12.a The Director or his/her representative has inspected those portions of the facility and finds them in compliance with the conditions of the permit; or

I.E.12.b Within 15 calendar days of the date of submission of the Certification of Construction letter referenced in Section I.E.12 of this permit, the Permittee has not received notice from the Director of his or her intent to inspect, prior inspection is waived and the Permittee may commence treatment, storage, or disposal of

hazardous waste in accordance with 40 C.F.R. § 270.30(l)(2)(ii)(B).

I.E.13 Transfer of Permits

This permit is not transferable to any person, except after notice to and approval of the Director. You must inform the Director in writing and obtain prior written approval of the Director before transferring ownership or operational control of the facility. (40 C.F.R. § 270.42, Appendix I). Under 40 C.F.R. § 270.40, the Director may require permit modification, or revocation and reissuance to change the name of the Permittee and incorporate other RCRA requirements. Before transferring ownership or operation of the facility during its operating life, you must notify the Director and obtain prior approval, and notify the new owner or operator in writing of the requirements of 40 C.F.R. Parts 264, 268, and 270, and you must provide a copy of the RCRA permit to the new owner or operator. (40 C.F.R. §§ 264.12(c), 270.30(l)(3), and 270.40(a)).

I.E.14 Twenty-Four Hour Reporting

I.E.14.a You must report to the Director any noncompliance with this permit that may endanger human health or the environment. Any such information must be promptly reported orally, but no later than 24 hours after you become aware of the circumstances.

I.E.14.b The report must include the following: (1) Information concerning release of any hazardous waste that may endanger public drinking water supplies; (2) Any information of a release or discharge of hazardous waste or of a fire or explosion from the hazardous waste management facility, which could threaten the environment or human health outside the facility. You must include the following information:

I.E.14.b.i Name, title and telephone number of the person making the report;

I.E.14.b.ii Name, address and telephone number of the facility owner or operator;

I.E.14.b.iii Facility name, address and telephone number;

I.E.14.b.iv Date, time and type of incident;

I.E.14.b.v Location and cause of incident;

I.E.14.b.vi Identification and quantity of material(s) involved;

I.E.14.b.vii Extent of injuries, if any;

I.E.14.b.viii Assessment of actual or potential hazards to the environment and human health outside the facility, where applicable;

I.E.14.b.ix Description of any emergency action taken to minimize the threat to human health and the environment; an

I.E.14.b.x Estimated quantity and disposition of recovered material that resulted from the incident.

(40 C.F.R. § 270.30(l)(6)).

I.E.14.c In addition to the oral notification required under Sections I.E.14.a and I.E.14.b of this permit, a written report must also be provided within 5 calendar days after you become aware of the circumstances. The written report must include, but is not limited to, the following:

I.E.14.c.i Name, address and telephone number of the person reporting;

I.E.14.c.ii Incident description (noncompliance and/or release or discharge of hazardous waste), including cause, location, extent of injuries, if any, and an assessment of actual or potential hazards to the environment and human health outside the facility, where applicable;

I.E.14.c.iii Period(s) in which the incident (noncompliance and/or release or discharge of hazardous waste) occurred, including exact dates and times;

I.E.14.c.iv Whether the incident's results continue to threaten human health and the environment, which will depend on whether the noncompliance has been corrected and/or the release or

discharge of hazardous waste has been adequately cleaned up; and

I.E.14.c.v If the noncompliance has not been corrected, the anticipated period for which it is expected to continue and the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance.

The Director may waive the requirement that written notice be provided within 5 calendar days; however, you will then be required to submit a written report within 15 calendar days of the day on which you must provide oral notice, in accordance with Sections I.E.14.a and I.E.14.b of this permit. (40 C.F.R. §§ 270.30(1)(6) and 270.30(h)).

I.E.15 Other Noncompliance

You must report all instances of noncompliance not reported under Section I.E.14 of this permit, when any other reports this permit requires are submitted. The reports must contain the information listed in Section I.E.14 of this permit.
(40 C.F.R. § 270.30(l)(10)).

I.E.16 Other Information

I.E.16.a Whenever you become aware that you failed to submit or otherwise omitted any relevant facts in the Part B Permit Application or other submittal, or submitted incorrect information in the Part B Permit Application or other submittal, you must promptly notify the Director of any incorrect information or previously omitted information, submit the correct facts or information, and explain in writing the circumstances of the incomplete or inaccurate submittal. (40 C.F.R. §§ 270.30(l)(11) and 270.30(h)).

I.E.16.b All other requirements contained in 40 C.F.R. § 270.30 not specifically described in this permit are incorporated into this permit and you must comply with all those requirements.

I.F SIGNATORY REQUIREMENT

You must sign and certify all applications, reports, or information this permit requires, or which are otherwise submitted to the Director, in accordance with 40 C.F.R. § 270.11. (40 C.F.R. § 270.30(k)).

I.G REPORTS, NOTIFICATIONS AND SUBMITTALS TO THE DIRECTOR

Except as otherwise specified in this permit, all reports, notifications, or other submittals that this permit requires to be sent or given to the Director must be sent by certified mail or express mail, or hand-delivered to the U.S. Environmental Protection Agency Region 5, Land and Chemicals Branch, at the following address with a note in the envelop indicating "Matter: Arcwood Environmental, East Liverpool, Ohio permit":

Land and Chemicals Branch, LL-17J
Land, Chemicals, and Redevelopment Division
U.S. EPA Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

I.H CONFIDENTIAL INFORMATION

In accordance with 40 C.F.R. Part 2, Subpart B, you may claim any information this permit requires, or otherwise submitted to the Director, as confidential. You must assert any such claim at the time of submittal in the manner prescribed on the application form or instructions or, in the case of other submittals, by stamping the words "Confidential Business Information" on each page containing such information. If you made no claim at the time of submittal, the Director may make the information available to the public without further notice. If you assert a claim, the information will be treated in accordance with the procedures in 40 C.F.R. Part 2. (40 C.F.R. § 270.12). You have the burden of substantiating that the claimed information is confidential, and EPA may request further information from you regarding such claim, and may reasonably determine which such information to treat as confidential.

I.I DOCUMENTS TO BE MAINTAINED AT THE FACILITY

You must maintain at the facility, until closure is completed and certified by an independent registered professional engineer, the following documents and all amendments, revisions, and modifications to them.

I.I.1 Operating Record

You must maintain in the facility's operating record the documents required by this permit, and by the applicable portions of 40 C.F.R. §§ 264.13, 264.73, 264.1064, 264.1084, 264.1088, and 264.1089.

I.I.2 Notifications

You must maintain notifications from generators that are required by 40 C.F.R. § 268.7 to accompany an incoming shipment of hazardous wastes subject to 40 C.F.R. Part 268, Subpart C, that specify treatment standards, as required by 40 C.F.R. §§ 264.73, 268.7, and this permit.

I.I.3 Copy of Permit

You must keep a copy of this permit on the facility site, including all of the documents listed in any attachments, and you must update it as necessary to incorporate any official permit modifications.

I.J ATTACHMENTS AND DOCUMENTS INCORPORATED BY REFERENCE

I.J.1 All attachments and documents that this permit requires to be submitted, if any, including all plans and schedules are, upon the Director's approval, incorporated into this permit by reference and become an enforceable part of this permit. Since required items are essential elements of this permit, failure to submit any of the required items or submission of inadequate or insufficient information may subject you to enforcement action under Section 3008 of RCRA. This may include fines, or permit suspension or revocation.

I.J.2 This permit also includes the documents attached hereto, all documents cross-referenced in these documents, and the applicable regulations contained in 40 C.F.R. Parts 124, 260, 261, 262, 264, 268, and 270, and applicable provisions of RCRA, all of which are incorporated herein by reference.

I.J.3 Any inconsistency or deviation from the approved designs, plans and schedules is a permit noncompliance. The Director may grant written requests for extensions of due dates for submittals required in this permit.

I.J.4 If the Director determines that actions beyond those provided for, or changes to what is stated herein, are warranted, the Director may modify this permit according to procedures in Section I.B of this permit.

I.J.5 If any documents attached to this permit are found to conflict with any of the conditions in this permit, the condition will take precedence.

I.K COORDINATION WITH THE CLEAN AIR ACT

You must fully comply with the RCRA requirements contained in this permit. This permit does not include the requirements imposed by the Clean Air Act.

The EPA is not imposing Subpart AA requirements because the facility does not use process vents. You must not operate process vents at the facility as defined in 40 C.F.R. § 264.1031.

SECTION II – AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS (40 C.F.R. PART 264, SUBPART BB)

II.A ELECTION TO DOCUMENT COMPLIANCE WITH THE CLEAN AIR ACT FOR CERTAIN EQUIPMENT AT THE FACILITY SUBJECT TO 40 C.F.R. PART 264 SUBPART BB

The Part B Permit Application states that you are operating equipment subject to 40 C.F.R. Part 264, Subpart BB. Such equipment includes pumps, valves, flanges, and connectors.

The air emission standards for equipment leaks, 40 C.F.R. Part 264, Subpart BB (Subpart BB), at 40 C.F.R. § 264.1064(m) provides, in part:

> *The owner or operator of a facility with equipment that is subject to this subpart and to regulations at 40 C.F.R. part 60, part 61, or part 63 may elect to determine compliance with this subpart either by documentation pursuant to § 264.1064 of this subpart, or by documentation of compliance with the regulations at 40 CFR part 60, part 61, or part 63 pursuant to the relevant provisions of the regulations at 40 [C.F.R.] part 60, part 61 or part 63. The documentation of compliance under regulations at 40 CFR part 60, part 61, or part 63 must be kept with or made readily available with the facility operating record.*

The Part B Permit Application provides that, in accordance with 40 C.F.R. § 264.1064(m), the Permittee has elected to determine compliance with Subpart BB by documenting compliance with 40 C.F.R. Part 61 – National Emission Standards for Hazardous Air Pollutants, Subpart V (National Emission Standard for Equipment Leaks (Fugitive Emission Sources) (§§ 61.240 - 61.247)) and Subpart J (National Emission

Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene (§§ 61.110 - 61.112)) for all subject equipment at the facility except those associated with the shredder that manages hazardous waste equipment. The Part B Permit Application says the Permittee has elected to manage all such equipment, in accordance with 40 C.F.R. Part 61, Subparts V and J.

For purposes of this permit, EPA considers the written statement from a responsible company official in the Part B Permit Application as your election to determine compliance with Subpart BB by documenting compliance with 40 C.F.R. Part 61 – National Emission Standards for Hazardous Air Pollutants, Subpart V and Subpart J. As set forth at 40 C.F.R. § 264.1064(m), the documentation of compliance with the regulations at 40 C.F.R. Part 61 Subpart V and Subpart J (Subpart BB Determination of Compliance), must be kept with or made readily available with the facility's operating record.

II.B REQUIREMENTS FOR EQUIPMENT LEAKS ASSOCIATED WITH THE HAZARDOUS WASTE SHREDDER

For all subject equipment associated with the shredder unit permitted to manage hazardous waste, You must comply with all applicable requirements of 40 C.F.R. Part 264 Subpart BB (Subpart BB), regarding air emission standards for equipment leaks. Subpart BB applies to equipment that contains or contacts hazardous waste with organic concentrations of at least 10 percent by weight that are managed in certain units as provided in 40 C.F.R. § 264.1050(b). You must clearly mark each piece of equipment to which Subpart BB applies in such a manner that it can be distinguished readily from other pieces of equipment. (40 C.F.R. § 264.1050(d))

The equipment subject to Subpart BB at the shredder at your facility includes, but is not limited to: (1) pumps in heavy liquid service; (2) valves; (3) pressure relief devices; (4) flanges and other connectors; (5) sampling connection systems; (6) open-ended valves or lines; and (7) closed-vent systems and control devices. You must comply with the following appropriate air emission standards for equipment leaks for this equipment pursuant to 40 C.F.R. § 264.601 and 40 C.F.R. Part 264 subpart BB.

II.B.1 Sampling Connection Systems (40 C.F.R. § 264.1055)

Each sampling connection system, except *in-situ* sampling systems and sampling systems without purges, shall collect the sample purge for return to the process or for routing them to the appropriate treatment system, and shall be equipped with a closed-purge, closed-loop, or closed-vent system which meets one of the following requirements:

II.B.1.a Return the purged process fluid directly to the process line

II.B.1.b Collect and recycle the purged process fluid; or

II.B.1.c Be designed and operated to capture and transport all the purged process fluid to a waste management unit that complies with applicable sections of 40 C.F.R. § 264.1084 through § 264.1086 or a control device that complies with 40 C.F.R. § 264.1060.

II.B.2 Open-Ended Valves or Lines (40 C.F.R. § 264.1056)

II.B.2.a Each open-ended valve or line must be equipped with a: (1) cap, (2) blind flange, (3) plug, or (4) second valve; and those must always seal the open end except during operations requiring hazardous waste stream flow through the open-ended valve or line.

II.B.2.b Each open-ended valve or line equipped with a second valve must be operated in a manner such that the valve on the hazardous waste stream end is closed before the second valve is closed.

II.B.2.c When a double block and bleed system is used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall seal the open end at all other times.

II.B.3 Valves in Gas/Vapor Service or in Light Liquid Service (40 C.F.R. § 264.1057)

II.B.3.a Each valve in gas/vapor or light liquid service shall be monitored monthly to detect leaks in accordance with 40 C.F.R. § 264.1063(b) and shall comply with 40 C.F.R. § 264.1057(b) through (e), except as provided in 40 C.F.R. § 264.1057(f), (g), and (h), and 40 C.F.R. §§ 264.1061 and 264.1062.

II.B.3.b If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

II.B.3.c When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 C.F.R. § 264.1059 – Standards; Delay of Repair. When a leak is detected, it must be repaired as specified in 40 C.F.R. § 264.1057(d) and (e). The first attempt at repair must be made no later than 5 calendar days after each leak is detected and

must include the best practices specified in 40 C.F.R. § 264.1057(e).

II.B.4 Pumps and Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges and Other Connectors (40 C.F.R. § 264.1058)

II.B.4.a Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors must be monitored within five days by the method specified in 40 C.F.R. § 264.1063(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

II.B.4.b When a leak is detected, you must repair the leak as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 C.F.R. § 264.1059. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

II.B.4.c First attempts at repair include, but are not limited to, the best practices described under 40 C.F.R. § 264.1057(e).

II.B.5 Delay of Repair (40 C.F.R. § 264.1059)

II.B.5.a Delay of repair of equipment for which leaks have been detected will be allowed if:

II.B.5.a.i The repair is technically infeasible without a hazardous waste management unit shutdown, in which case, repair of this equipment must occur before the end of the next hazardous waste management unit shutdown; or

II.B.5.a.ii The equipment is isolated from the hazardous waste management unit and does not continue to contain or contact hazardous waste with organic concentrations at least 10 percent by weight.

II.B.5.b Delay of repair for valves will be allowed if:

II.B.5.b.i The Permittee determines emissions of purged material resulting from immediate repair are greater than the emissions likely to result from delay of repair; and

II.B.5.b.ii When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40 C.F.R. § 264.1060.

II.B.6.c Delay of repair beyond a hazardous waste management unit shutdown will be allowed for a valve only if the provisions of 40 C.F.R. § 264.1059(e) are met.

II.B.6 Closed-Vent Systems and Control Devices (40 C.F.R. § 264.1060)

Closed-vent systems and control devices must comply with the provisions of 40 C.F.R. §§ 264.1033 and 264.1060.

II.B.7 Alternative Standards for Valves in Gas/Vapor Service or in Light Liquid Service: Percentage of Valves Allowed to Leak (40 C.F.R. § 264.1061)

You may elect to have all valves subject to 40 C.F.R. § 264.1057 and Section VI.A.3 within a hazardous waste management unit comply with an alternative standard that allows no greater than 2 percent of the valves to leak. If you elect to comply with this alternative standard, you must comply with the provisions of 40 C.F.R. § 264.1061(b) and (c). If you decide to discontinue the election of the alternative standards, you must comply with the work practice standards in 40 C.F.R. § 264.1057 and Section VI.A.3, and you must notify the Director in writing that you will comply with the standards described in 40 C.F.R. §§ 264.1057(a) through (e).

II.B.8 Alternative Standards for Valves in Gas/Vapor Service or in Light Liquid Service: Skip Period Leak Detection and Repair (40 C.F.R. § 264.1062)

You may elect for all valves subject to the requirements of 40 C.F.R. § 264.1057 and Section VI.A.3 of this permit within a hazardous waste management unit to comply with one of the alternative work practices specified below. Except as described below, you must comply with the requirements for valves set forth at 40 C.F.R. § 264.1057.

II.B.8.a After two (2) consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2 percent, you may begin to skip one of the quarterly leak detection periods (i.e., monitor for leaks once every six months) for the valves subject to 40 C.F.R. § 264.1057.

II.B.8.b After five (5) consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than two (2) percent, you may begin to skip three (3) of the quarterly leak detection periods (i.e., monitor for leaks once every year) for the valves subject to 40 C.F.R. § 264.1057. You must monitor valve leaks monthly in compliance with the requirements of 40 C.F.R. §264.1057 if the percentage of valves leaking is greater than two (2) percent, but you may again elect to use the alternative standards as set forth in VI.A.8 after meet ing the requirements of 40 C.F.R. §264.1057(c)(1).

II.C TEST METHODS AND PROCEDURES (40 C.F.R. § 264.1063)

You must comply with the test methods and procedures requirements of 40 C.F.R. § 264.1063.

II.D RECORDKEEPING AND REPORTING REQUIREMENTS (40 C.F.R. §§ 264.1064 and 264.1065)

You must comply with the recordkeeping and reporting requirements of 40 C.F.R. §§ 264.1064 and 264.1065.

II.E PROPOSED CHANGES TO ELECTION FOR DEMONSTRATION OF COMPLIANCE WITH 40 C.F.R. PART 264 SUBPART BB

For any proposed changes of the Subpart BB Determination of Compliance, including but not limited to changes due to the amount of benzene produced or processed at the facility that qualify the facility for the exemption in 40 C.F.R. § 61.110(c), you must submit a Class 1 permit modification request providing for the application of 40 C.F.R. Part 264, Subpart BB to such hazardous waste equipment.

SECTION III – AIR EMISSIONS STANDARDS FOR CONTAINERS, TANKS, AND MISCELLANEOUS UNITS (40 C.F.R. PART 264 SUBPART CC)

You are permitted by the State portion of the permit to store hazardous wastes in twenty-nine (29) existing tanks. Your Part B Permit Application also specifies that more tanks are authorized in the Ohio EPA RCRA permit, but have not been constructed. If constructed, these tanks will be subject to 40 C.F.R. Part 264, Subpart CC and must comply with all applicable requirements.

Prior to managing hazardous waste in these to-be-constructed tanks, the Permittee must submit a request to the EPA to modify this permit pursuant to 40 C.F.R. § 270.42 to add these tanks to this permit and receive approval for the modification request from the EPA.

The existing tanks which are permitted to process hazardous waste are specified in the following chart:

Tank Locations	Number of Tanks	Total Volume
Organic Tank Farm	18 tanks (T-1 through T-18)	288,000 gallons
Adjacent to Container Processing Building	5 tanks Pt-1 through Pt-5	15,000 gallons
Solid-Waste Tanks	2 tanks S-1 through S-2	1,500 cubic yards
Laboratory Tanks	1 tank L-1	1,000 gallons
Process Holding Tanks	3 tanks W-6 through W-8	66,000 gallons

The Part B Permit Application states that tanks L-1, W-6, W-7, and W-8 can contain hazardous waste with an average volatile organic (VO) concentration at the point of waste origination of less than 500 parts per million by weight (ppmw). All other tanks can contain hazardous waste with an average VO concentration at the point of waste origination of more than 500 ppmw. Section III.B below discusses the conditions and requirements for an exemption under 40 C.F.R. § 264.1082(c)(1), from the standards specified at 40 C.F.R. §§ 264.1084 through 264.1087, for tanks for which all hazardous waste entering the unit has an average VO concentration at the point of waste origination of less than 500 ppmw.

You are also permitted by the State portion of the permit to store hazardous waste in containers in eight (8) permitted storage areas: 1) Building A (Drum Warehouse, 313,500 gallons, 2) Building B (External Truck Wash, 15,180 gallons), 3) Building C (Lab Pack, 13,200 gallons), 4) Container Holding Building (47,250 Gallons), 5) North Storage Area (55,000 gallons), 6) East Storage Area (22,500 gallons), 7) Bulk Solid Storage Pad (343,345 gallons), and 8) Truck Holding and Sampling Area (46,000 gallons). The maximum capacity of these total container storage areas is 855,475 gallons.

You are also permitted by the State portion of the permit to operate eight (8) miscellaneous units that include: two (2) filter presses, four (4) shredders, one (1) extruder, and one (1) pusher. Of these eight (8) miscellaneous units, only one (1) shredder is currently operating with hazardous waste. (The pusher is installed but not operational.) Prior to managing hazardous waste in any miscellaneous unit other than that shredder, the Permittee must submit a request to the EPA to modify this permit pursuant to 40 C.F.R. § 270.42 to add such miscellaneous unit to this permit

and receive approval for the modification request from the EPA. Section III.E below discusses the requirements for the shredder currently operating with hazardous waste.

You must comply with all applicable requirements of 40 C.F.R. Part 264, Subpart CC, at 40 C.F.R. § 264.1080 through 40 C.F.R. § 264.1090, regarding air emission standards for containers and tanks handling hazardous waste. The tanks and containers permitted in the State RCRA permit, described above, are Level 1 and Level 2 tanks and Level 1 and Level 2 containers and must comply with the standards at 40 C.F.R. § 264.1084(c) (Tank Level 1 standards), 40 C.F.R. § 264.1084(d) (Tank Level 2 standards), 40 C.F.R. § 264.1086(c) (Container Level 1 standards), and 40 C.F.R. § 264.1086(d) (Container Level 2 standards), respectively. You must also comply with all applicable requirements of 40 C.F.R. Part 264, Subpart CC, at 40 C.F.R. § 264.1080 through 40 C.F.R. § 264.1090, regarding air emission standards for miscellaneous unit.

You must not conduct a waste stabilization process, as defined in 40 C.F.R. § 265.1081, in containers, tanks, and/or miscellaneous units which contain hazardous waste.

III.A AIR EMISSIONS STANDARDS FOR TANKS AND CONTAINERS

The air emission standards for tanks and containers, 40 C.F.R. Part 264, Subpart CC (Subpart CC) at 40 C.F.R. § 264.1080(b)(7) provides, in part:

> *(b) The requirements of this subpart do not apply to the following waste management units at the facility: … (7) A hazardous waste management unit that the owner or operator certifies is equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act regulation codified under 40 CFR part 60, part 61, or part 63. For the purpose of complying with this paragraph, a tank for which the air emission control includes an enclosure, as opposed to a cover, must be in compliance with the enclosure and control device requirements of § 264.1084(i), except as provided in § 264.1082(c)(5).*

The Permittee's Part B Permit Application contains a written certified statement from a responsible company official that, pursuant to 40 C.F.R. § 264.1080(b)(7), containers and tanks, are equipped with and operating air emission controls in accordance with the requirements of the applicable CAA regulations under 40 C.F.R. Part 60, 61, or 63. More specifically, regarding the operation and management of tanks and containers, it states that the Permittee complies with the applicable sections of 40 C.F.R. Part 60 - Standards of Performance for New Stationary Sources, Subpart Kb (Standards of Performance for Volatile Organic Liquids Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, and On or Before October 4, 2023) (§§ 60.110b – 60.117b), 40 C.F.R. Part 61 -

National Emission Standards for Hazardous Air Pollutants, Subpart FF (National Emission Standard for Benzene Waste Operations) (§§ 61.340 - 61.359), and 40 C.F.R. Part 63 - National Emission Standards for Hazardous Air Pollutants For Source Categories, Subpart DD (National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations) (§§ 63.680 - 63.698). The Permittee's Permit Application also indicated that Tank T-1 will comply with 40 C.F.R. Part 264, Subpart CC.

For purposes of this permit, EPA considers the information in the Part B Permit Application as a certification by the Permittee that, with the exception of Tank T-1, the hazardous waste management tanks and containers subject to Subpart CC are equipped with and operating air emission controls in accordance with 40 C.F.R. Part 60, Subpart Kb, Part 61, Subpart FF, and Part 63, Subpart DD (Subpart CC Certification).

Therefore, in accordance with 40 C.F.R. § 264.1080(b)(7), the air emission standard requirements of Subpart CC do not apply to hazardous waste management tanks and containers at the facility other than Tank T-1. Rather, those tanks and containers are subject to the CAA and must be equipped with and operating air pollution controls in accordance with the requirements of 40 C.F.R. Part 60, Subpart Kb, Part 61, Subpart FF, and Part 63, Subpart DD at all times hazardous waste is managed in the units.

The air emission control for Tanks S1 and S2 includes an enclosure, as opposed to a cover. As set forth at 40 C.F.R. § 264.1080(b)(7), those tanks must also be in compliance with the enclosure and control device requirements at 40 C.F.R. § 264.1084(i), except as provided in 40 C.F.R. § 264.1082(c)(5). Arcwood indicates that they are meeting the exemption criterion specified in 40 C.F.R. § 264.1082(c)(5), in the Federal RCRA (BB/CC) Permit Compliance Certification dated November 27, 2018 and Arcwood's response (dated March 22, 2019) to EPA's review comment dated February 27, 2019, therefore they are exempted from compliance with the Subpart CC requirements. These two tanks must meet the requirements of 40 C.F.R.
§ 264.1082(c)(5)(i) – (iii), in addition to the requirements at 40 C.F.R. § 264.1087(b)(7), because they use enclosures instead of covers and are not meeting the requirements of 40 C.F.R. § 264.1084(i). See 40 C.F.R. §§ 264.1080(b)(7) and 264.1082(c)(5).

Within twelve months of the effective date of this permit and annually thereafter, you must update the Subpart CC Certification that all of the tanks and containers subject to Subpart CC are equipped with and operating air emission controls in accordance with the applicable requirements in 40 C.F.R. Part 60, Subpart Kb, Part 61, Subpart FF, and Part 63, Subpart DD, as applicable to each tank and container storage area. The Subpart CC Certification must be retained at the facility and be provided to EPA and State representatives, or their designees, upon request. As set forth at 40 C.F.R. § 264.1089(a) and (j), you must maintain in the operating record both: 1) a certification that the waste

management unit is equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act regulation codified under 40 C.F.R. Part 60, Part 61, or Part 63; and 2) identification of the specific requirements codified under 40 C.F.R. Part 60, Part 61, or Part 63 with which the waste management unit is in compliance. For the tanks S-1 and S-2 which use enclosure instead of covers, the certification must specifically address compliance with 40 C.F.R. Part 63 Subpart FF as required for the exemption at 40 C.F.R. § 264.1082(c)(5)(i). You must inform the EPA Region 5 RCRA program (at the address specified in Section I.G) and the State RCRA Program, in writing, about any local, State, or federal findings or notice of alleged noncompliance with CAA requirements at the subject tanks and containers no later than 30 days after your receipt of such notice of noncompliance.

If you anticipate changing the installed air emission control equipment, including but not limited to any changes to the use or operation of such equipment, from that described in your Subpart CC Certification, or any changes in your certification or the compliance status of the tanks and containers with 40 C.F.R. Part 60, Subpart Kb, Part 61, Subpart FF, and Part 63, Subpart DD, you must inform the EPA Region 5 RCRA program (at the address specified in Section I.G), in writing, about the changes no later than 30 days prior to any such changes. In the event that any of the tanks and containers specified in the Part B Permit Application are no longer equipped with and operating air emission controls because 40 C.F.R. 40 C.F.R. Part 60, Subpart Kb, Part 61, Subpart FF, and/or Part 63, Subpart DD no longer requires, on an on-going basis, operation of such equipment to achieve and maintain compliance with the CAA (e.g., because of emission averaging, bubbling, due to a threshold determination, or amount of benzene produced or processed at the facility, etc.), the Subpart CC exemption shall be suspended and such tanks and/or containers shall be immediately subject to and must comply with all applicable requirements of 40 C.F.R. Part 264, Subpart CC. In this event, you must submit to EPA and the State RCRA program a Class II permit modification request providing for the formal revision of this permit to apply 40 C.F.R. Part 264, Subpart CC to those hazardous waste tanks and containers.

As discussed at III.D. below, the Permit Application also requests a different exemption for the less-than-90-day operations of the East Storage area, the Bulk Solid Storage Pad Area, and the North Storage Area.

III.B MAXIMUM VOLATILE ORGANIC CONCENTRATION FOR TANKS L-1, W-6, W-7, AND W-8

The Permittee's Part B Permit Application states that the hazardous waste stored in Tanks L-1, W-6, W-7, and W-8 at the facility contains an average volatile organic (VO) concentration as determined at the point of waste origination of less than 500 ppmw.

40 C.F.R. § 264.1082(c)(1), in pertinent part, provides:

> *(c) A tank, surface impoundment, or container is exempt from standards specified in § 264.1084 through § 264.1087 of this subpart, as applicable, provided that the waste management unit is one of the following:*
>
> > *(1) A tank, surface impoundment, or container for which all hazardous waste entering the unit has an average VO concentration at the point of waste origination of less than 500 parts per million by weight (ppmw). The average VO concentration shall be determined using the procedures specified in § 264.1083(a) of this subpart. The owner or operator must review and update, as necessary, this determination at least once every 12 months following the date of the initial determination for the hazardous waste streams entering the unit.*

Among other requirements, 40 C.F.R. § 264.1083(a) specifies procedures for determining the average VO concentration at the point of waste origination for each hazardous waste placed in a waste management unit exempted under 40 C.F.R. § 264.1082, including the procedures at 40 C.F.R. § 265.1084(a)(2) through (a)(4); discusses the timing of the initial determination; and requires an owner and operator to perform a new waste determination whenever changes to the source generating the waste stream are reasonably likely to cause the average VO concentration of the hazardous waste to increase to a level that is equal to or greater than the applicable VO concentration limits specified in 40 C.F.R. § 264.1082.

For a unit to be exempt from the requirements of 40 C.F.R. §§ 264.1084 through 264.1087, you must meet all the requirements specified at 40 C.F.R. § 264.1082(c)(1) for that unit, including but not limited to making timely determinations, following the procedures specified at 40 C.F.R. § 264.1083(a), and having an average VO concentration for hazardous waste at the point of waste origination below 500 ppmw.

III.B.1 For a unit to be exempt under 40 C.F.R. § 264.1082(c)(1), you must demonstrate by direct measurement or approved method that the average VO concentration for all hazardous waste placed in that unit, as determined in accordance with 40 C.F.R. §§ 264.1083(a) and 265.1084(a)(2) through (a)(4), is less than 500 ppmw, as specified by 40 C.F.R. §§ 264.1082(c)(1) and 264.1083(a).

III.B.2 For a tank which is permitted to receive hazardous waste from multiple sources, such as Tank L-1, you are required to sample and analyze each

feed stream at its waste origination point to determine whether each waste stream at its origination point is less than 500 ppmw. If one feed stream of waste exceeds its VO concentration at 500 ppmw at its origination point, then the resultant wastes in the tank would be subject to 40 C.F.R. Part 264, Subpart CC.

III.B.2.a If any one of the individual waste feedstreams, at its waste origination point, exceeds an average VO concentration above 500 ppmw, then you must require the entire tank to comply with the standards at 40 C.F.R. § 264.1084(c) (Tank Level 1 standards).

III.B.3 For each hazardous waste placed in these Tanks (L-1, W-6, W-7, and W-8), you must review and update, as necessary, the determination under Section III.B, at least once every twelve months following the date of the initial determination using the procedures specified in 40 C.F.R. §§ 264.1083(a) and 265.1084(a)(2) through (a)(4), as specified in 40 C.F.R. §§ 264.1082(c)(1) and 264.1083(a).

You must perform a new waste determination whenever changes to the source generating the waste stream are reasonably likely to cause the average VO concentration of the hazardous waste managed in any of these 4 Tanks (L-1, W-6, W-7, and W-8) to increase to a level that is equal or greater than 500 ppmw. You must also review and update, as necessary, determinations under 40 C.F.R. § 264.1082(c)(1) at least once every twelve months following the date of the determination, as required by 40 C.F.R. § 264.1082(c)(1).

III.B.4 You must comply with all applicable recordkeeping and reporting requirements described in 40 C.F.R. § 264.1089 and § 264.1090 for these four (4) Tanks (L-1, W-6, W-7, and W-8).

III.B.5 You must inform the EPA Region 5 RCRA program (at the address specified in Section I.G), in writing, about any changes to the information in your Part B Permit Application that the hazardous waste processed in these four (4) Tanks (L-1, W-6, W-7, and W-8) contains an average VO concentration at the point of waste origination of less than 500 ppmw no later than 30 calendar days prior to any such changes. In the event that any of these four (4) tanks specified in the Part B Permit Application have hazardous waste entering the unit with an average VO concentration at the point of waste origination of 500 ppmw or more, the exemption will be suspended and such tank(s) shall be immediately subject to and you must comply with all applicable Level 1 Tank standards as described at 40

C.F.R § 264.1084(c). In this event, you must also submit to EPA and the State a permit modification request providing for the application of 40 C.F.R. Part 264, Subpart CC to those hazardous waste tank(s). (40 C.F.R. § 264.1090) (40 C.F.R. § 270.42).

III.C LEVEL 2 STANDARDS FOR TANK T-1

You must manage Tank T-1 with Tank Level 2 standards as described at 40 C.F.R § 264.1084(d). When storing hazardous waste in Level 2 tanks, you must comply with the following requirements:

Tank T-1 must be covered by a fixed roof and vented directly through the closed vent system to a control device in accordance with the following requirements specified in 40 C.F.R. §§ 264.1084(g), (j), (k), and (l):

III.C.1 The fixed roof and its closure devices must be designed to form a continuous barrier over at least the entire surface area of the liquid in the tank. (40 C.F.R. § 264.1084(g)(1)(i)).

III.C.2 Each opening in the fixed roof not vented to the control device must be equipped with a closure device. If the pressure in the vapor headspace underneath the fixed roof is less than atmospheric pressure when the control device is operating, the closure devices must be designed to operate such that when the closure device is secured in the closed position there are no visible cracks, holes, gaps, or other open spaces in the closure device or between the perimeter of the cover opening and the closure device. If the pressure in the vapor headspace underneath the fixed roof is equal to or greater than atmospheric pressure when the control device is operating, the closure device must be designed to operate with no detectable organic emissions. (40 C.F.R. § 264.1084(g)(1)(ii)).

III.C.3 The fixed roof and its closure devices must be made of suitable materials that will minimize exposure of the hazardous waste to the atmosphere, to the extent practical, and will maintain the integrity of the fixed roof and closure devices throughout their intended service life. Factors to be considered when selecting the materials for and designing the fixed roof and closure devices must include: organic vapor permeability, the effects of any contact with the liquid and its vapor managed in the tank; the effects of outdoor exposure to wind, moisture, and sunlight; and the operating practices used for the tank on which the fixed roof is installed. (40 C.F.R. § 264.1084(g)(1)(iii)).

III.C.4 Whenever a hazardous waste is in the tank, the fixed roof must be installed with each closure device secured in the closed position and the vapor headspace underneath the fixed roof vented to the control device except as provided in 40 C.F.R. § 264.1084(g)(2)(i) and (ii). (40 C.F.R. § 264.1084(g)(2)).

III.C.5 You must inspect and monitor the air emission control equipment in accordance with the requirements specified in 40 C.F.R. §§ 264.1084(g)(3), 264.1084(l), and 264.1087. In the event that a defect is detected, you must repair the defect in accordance with 40 C.F.R. § 264.1084(k). You must maintain a record of the inspection in accordance with the requirements specified at 264.1089(b). (40 C.F.R. § 264.1084(g)(3)).

III.C.6 You must transfer hazardous waste to a tank in accordance with 40 C.F.R. § 264.1084(j).

III.C.7 The closed vent system must meet the requirements of 40 C.F.R. § 264.1087(b).

III.C.7.a The closed vent system must route the gasses, vapors and fumes emitted from the hazardous waste in the tanks to control devices that meet the requirements specified in 40 C.F.R. § 264.1087(c).

III.C.7.b The closed vent system must be designed and operated in accordance with the requirements specified in 40 C.F.R. § 264.1033(k). A closed vent system must meet either of the following design requirements:

III.C.7.b.i the closed vent system must be designed to operate with no detectable emissions, as indicated by an instrument reading of less than 500 ppm by volume above background as determined by the procedure in 40 C.F.R. § 264.1034(b) and by visual inspections; or

III.C.7.b.ii the closed vent system must be designed to operate at a pressure below atmospheric pressure. The system must be equipped with at least one pressure gauge or other pressure measurement device that can be read from a readily accessible location to verify that negative pressure is being maintained in the closed vent system when the control device is operating.

III.C.7.c The closed vent system must not include any bypass devices that could be used to divert the gas or vapor stream to the atmosphere before entering the control device.

III.C.7.d You must inspect and monitor the closed vent systems and control devices as specified in 40 C.F.R. §§ 264.1033(l), 264.1033(f) and 264.1087(c)(7). The closed vent system that is used to comply with III.C.7.b(i) above must be inspected and monitored in accordance with the requirements of 40 C.F.R. § 264.1033(l)(1). The closed vent system that is used to comply with III.C.7.b(ii) above must be inspected and monitored in accordance with the requirements of 40 C.F.R. § 264.1033(l)(2). You must comply with the requirements at 40 C.F.R. § 264.1033(l)(3).

III.C.8 The control device must meet the requirements of 40 C.F.R. § 264.1087(c).

III.C.8.a You must control the air emissions from Tank T-1 which is located at the Tank Farm by venting the emissions from the tank through closed vent systems to the control device. The facility uses a combustion control device or a carbon adsorption system control device. The combustion control device must be enclosed and designed and operated to reduce organic emissions vented to it by 95 percent or greater as set forth at 40 C.F.R. § 264.1033(c) and 40 C.F.R. § 264.1087(c)(1)(ii). The carbon adsorption system control device must be designed and operated to reduce the total organic content of the inlet vapor stream vented to the control device by at least 95 percent by weight as set forth at 40 C.F.R. § 264.1087(c)(1)(i). You must demonstrate that the control device achieves these performance requirements as set forth at 40 C.F.R. § 264.1087(c)(5) and (6).

III.C.8.b You must comply with the requirements specified in 40 C.F.R. § 264.1087(c)(2)(i). Periods of planned routine maintenance, during which the carbon adsorption system does not meet the specifications of 40 C.F.R. § 264.1087(c)(1)(i) and/or the combustion control device does not meet the specifications of 40 C.F.R. § 264.1033(c) and 40 C.F.R. § 264.1087(c)(1)(ii) must not exceed 240 hours per year. (40 C.F.R. § 264.1087(c)(2)(i)).

III.C.8.c You must comply with the requirements specified in 40 C.F.R.

§ 264.1087(c)(2)(ii) through (c)(2)(vi), including requirements concerning the planned routine maintenance, control system device malfunction, record keeping, correction of device system malfunction, and other operating requirements.

III.C.8.d You must operate and maintain the control device for carbon adsorption system in accordance with the requirements of 40 C.F.R. § 264.1087(c)(3). You must replace the existing carbon in the control device with fresh carbon on a regular basis by using one of the following procedures:

III.C.8.d.i You must monitor the concentration level of the organic compounds in the exhaust vent stream from the carbon adsorption system on a regular schedule. The monitoring frequency must be daily or at an interval no greater than 20 percent of the time required to consume the total carbon working capacity established as a requirement of 40 C.F.R. § 264.1035(b)(4)(iii)(G), whichever is longer. You must replace the existing carbon in the control device with fresh carbon immediately when carbon breakthrough is indicated. (40 C.F.R. §§ 264.1087(c)(3)(i) and 264.1033(h)(1)).

III.C.8.d.ii You must replace the existing carbon with fresh carbon at a regular, predetermined time interval that is less than the design carbon replacement interval established as a requirement of 40 C.F.R. § 264.1035(b)(4)(iii)(G). (40 C.F.R. §§ 264.1087(c)(3)(i) and 264.1033(h)(2)).

You must also comply with the requirements specified in Section III.E.2.f, below, for the carbon adsorption maintenance log.

III.C.8.e All carbon that is removed from the carbon adsorption system after use must be managed in accordance with the requirements of 40 C.F.R. §§ 264.1087(c)(3)(ii) and 264.1033(n) regardless of the average volatile organic concentration of the carbon. You must prepare and maintain records sufficient to demonstrate that the requirements of this provision are satisfied as part of the facility operating record. You must document that all carbon that is a hazardous waste and that is removed from the control device is managed as specified in 40 C.F.R. § 264.1033(n), regardless of the average volatile organic concentration of the carbon.

III.C.9 Closed vent systems and control devices used to comply with this permit must be operated at all times when emissions may be vented to them. (40 C.F.R. § 264.1033(m)).

III.C.10 You must comply with the following recordkeeping and reporting requirements:

III.C.10.a For container storage areas and tanks, you must comply with all applicable recordkeeping and reporting requirements described in 40 C.F.R. §§ 264.1089 and 264.1090.

III.C.10.b You must prepare and maintain records for the closed vent system and the control devices described in the manner described in 40 C.F.R. § 264.1089, including 40 C.F.R. § 264.1089(a), (b), and (e), and 40 C.F.R. § 264.1035.

III.C.10.c You must comply with all reporting requirements for the control devices under 40 C.F.R. § 264.1090(c) and (d) and 40 C.F.R. § 264.1036. Such reports must be sent to EPA (at the address specified in Section I.G).

III.D REQUIREMENTS FOR CONTAINER STORAGE AREAS

III.D.1 Less-than 90-day Containers

The Permittee indicates the East Storage Area, the North Storage Area, and the Bulk Solid Storage Pad Area will be used as less-than 90-day areas as a large quantity generator in addition to being permitted units. The typical containers used by the facility for accumulation and shipment are 55-gallon drums and roll-off boxes. Activities and units covered by an exemption from RCRA permitting, such as the large quantity generator exemption (which, among other things, imposes conditions addressing air emission standards for tanks and containers at 40 C.F.R. Part 265, Subpart CC at 40 C.F.R. § 262.17(a)(1), formerly at 40 C.F.R. § 262.34(a)(1)), must meet all conditions and/or requirements for the exemption as set forth in the provisions that govern any exemption from RCRA permitting to operate without a permit or meeting the conditions that apply to permitted facilities. As discussed at I.A. above, any hazardous waste activity that requires a RCRA permit and is not authorized is prohibited.

You must inform the EPA Region 5 RCRA program (at the address specified in Section I.G), in writing, about any changes to the statement in the Part B Permit Application or any change in any permitting exemption status no later than 30 days prior to any such changes. In

the event that any activity or unit does not meet the conditions and/or requirements for an exemption from permitting, it shall be immediately subject to and you must comply with all requirements that apply to facilities that must obtain a RCRA permit, including but not limited to the applicable requirements of 40 C.F.R. Part 264, Subpart CC. In this event, you must also submit to EPA RCRA Program (at the address specified in Section I.G) and the State RCRA program a modification request of the appropriate class providing for revision of the State and federal RCRA Permit to apply the applicable 40 C.F.R. Part 264, requirements.

III.E MISCELLANEOUS UNIT REQUIREMENTS

This permit allows for the management of hazardous waste in only one (1) of the four (4) shredder units at the facility. The shredder is designed to reduce the size of solid material at a rate of 40,000 lbs/hour for subsequent processing either through the facility's rotary kiln or to be sent off-site to an approved treatment facility. The shredder is located in the facility's shredder building and the secondary containment capacity for the Shredder Building is 26,579 gallons. The building will be equipped with fire suppression and detection systems. Forced air ventilation will be used to prevent the accumulation of vapors and fumes. The doors in the building are kept closed during processing to control fugitive emissions and to maximize the efforts of the vapor recovery system.

The shredder unit consists of enclosed vented feed chamber; a shredder chamber; and a sealed discharge section. The feed hopper is enclosed and vented to the closed-vent system and carbon system (control device) to control organic emissions and to minimize losses during inerting and loading. The loading hood consists of a four-sided enclosure with a hydraulically operated door and explosion vent. The atmosphere inside the loading hood is continuously monitored for explosivity and inerting gas added to the loading hood and shredder cavity as needed to maintain an inert atmosphere. A vent stream is continuously extracted from the enclosed atmosphere to the closed-vent system and carbon system (control device) to prevent the buildup of volatile vapors in the shredder cavity and the loading hood.

The carbon system (control device) will be designed to reduce by at least 95% by weight the total volatile organic concentration of the inlet vent stream. The carbon system (control device) consists of two boxes connected in series with respect to the flow of exhaust air. The carbon boxes located on the east side of the Shredder Building. The carbon system (control device) will remove a minimum of 95% percent of the total organic vapors from the exhaust air prior to being discharged to the atmosphere. Spent carbon boxes will be removed from service and replaced with a clean carbon box. The spent carbon removed from the carbon boxes is managed as hazardous waste and may either be incinerated on-site or sent off-site for regeneration.

III.E.1 You must comply with the following air emission standards appropriate for the Miscellaneous Unit under 40 C.F.R. § 264.601 and 40 C.F.R. Part 264, Subpart CC.

III.E.2 You must comply with the waste analysis requirements at 40 C.F.R. § 264.1083.

III.E.3 You must comply with the standards and controls for Level 2 Tanks at 40 C.F.R. § 264.1084(d)(3)

III.E.3.a You must control the air emissions in accordance with the Tank Level 2 requirements of 40 C.F.R. § 264.1084(d) by venting the shredder through closed vent systems to carbon adsorption units designed and operated to reduce the total organic content of the inlet vapor stream vented to the control device by at least 95 percent or greater by weight in accordance with 40 C.F.R. §§ 264.1084(d)(3) and (g), and 264.1087.

III.E.3.b The shredder must be an enclosed unit (not open to the atmosphere when operating) and vented directly through the closed vent system to a control device in accordance with the requirements specified in 40 C.F.R. § 264.1084(g), (j), (k), and (l).

III.E.3.c The shredder and its closure devices must be designed to form a continuous barrier over the portable tote/hopper while in operation. The portable tote/hopper will be sealed upon conclusion of the filling operation and removal from the shredder. (40 C.F.R. § 264.1086(d)(3)(i)(A)).

III.E.3.d Each opening in the shredder not vented to the control device must be equipped with a closure device. If the pressure in the vapor headspace underneath the shredder is less than atmospheric pressure when the control device is operating, the closure devices must be designed to operate such that when the closure device is secured in the closed position there are no visible cracks, holes, gaps, or other open spaces in the closure device or between the perimeter of the cover opening and the closure device. If the pressure in the vapor headspace underneath the shredder is equal to or greater than the atmospheric pressure when the control device is operating, the closure device must be designed to operate with no detectable organic emissions. (40 C.F.R. § 264.1084(g)(1)(ii))

III.E.3.e The shredder and its closure devices must be made of suitable materials that will minimize exposure of the hazardous waste to the atmosphere, to the extent practical, and will maintain the integrity of the shredder and closure devices throughout their intended service life. Factors to be considered when selecting the materials for and designing the shredder and closure devices must include organic vapor permeability, the effects of any contact with the liquid and its vapor managed in the shredder; the effects of outdoor exposure to wind, moisture, and sunlight; and the operating practices used for the shredder. (40 C.F.R. § 264.1084(g)(1)(iii))

III.E.3.f The closed-vent system and control device must be designed and operated in accordance with the requirements of 40 C.F.R. § 264.1087. (40 C.F.R. § 264.1084(g)(1)(iv))

III.E.3.g Whenever a hazardous waste is in the shredder, the shredder must be installed with each closure device secured in the closed position and vented to the control device except as specified in 40 C.F.R. § 264.1084(g)(2)(i) and (ii). (40 C.F.R. § 264.1084(g)(2))

III.E.3.h You must inspect and monitor the air emission control equipment in accordance with the requirements specified in 40 C.F.R §§ 264.1084(g)(3) and (l), 264.1087 and 264.1033(l). In the event that any defect is detected, You must repair and address the defect in accordance with 40 C.F.R. § 264.1084(k). You must maintain a record of the inspection in accordance with the requirements specified at 40 C.F.R. §§ 264.1084(g)(3) and 264.1089(b). (40 C.F.R. § 264.1084(g)(3))

III.E.3.i You must transfer hazardous waste to the shredder in accordance with the requirements at 40 C.F.R. § 264.1084(j).

III.E.4. Each closed vent system must be designed and operated in accordance with the requirements of 40 C.F.R. § 264.1087(b).

III.E.4.a Each closed vent system must route the gases, vapors, and fumes emitted from the hazardous waste in the shredder to a control device that meets the requirements specified in 40 C.F.R. § 264.1087(c).

III.E.4.b Each closed vent system must be designed and operated in

accordance with the requirements specified in 40 C.F.R. § 264.1033(k). A closed vent system must meet either of the following design requirements:

III.E.4.b.i a closed vent system must be designed to operate with no detectable emissions, as indicated by an instrument reading of less than 500 ppm by volume above the background as determined by the procedure in 40 C.F.R. § 264.1034(b), and by visual inspections; or

III.E.4.b.ii a closed vent system must be designed to operate at a pressure below atmospheric pressure. The system must be equipped with at least one pressure gauge or other pressure measurement device that can be read from a readily accessible location to verify that negative pressure is being maintained in the closed vent system when the control device is operating.

III.E.4.c A closed vent system must not include any bypass device that could be used to divert the gas or vapor stream to the atmosphere before entering the control device, unless it is equipped with either a flow indicator or a seal or locking device specified in 40 C.F.R. § 264.1087(b)(3).

III.E.4.d You must inspect and monitor each closed vent system as specified in 40 C.F.R § 264.1033(l). (40 C.F.R. § 1087(b)(4)). You must repair and address defects as specified at 40 C.F.R. § 264.1033(l)(3).

III.E.4.e Each control device must meet and comply with the requirements of 40 C.F.R. § 264.1087(c).

III.E.4.e.i You must demonstrate compliance with the minimum 95 percent by weight removal efficiency of the total organic content of the inlet vapor stream vented to the carbon adsorption system as set forth in 40 C.F.R. § 264.1087(c)(1)(i), (5) and (6). (40 C.F.R. § 264.1087(c)(1)(i), (c)(5), and (c)(6)).

III.E.4.e.ii The planned routine maintenance of the carbon adsorption system, during which 95 percent removal efficiency cannot be met, must not exceed 240 hours per year. (40 C.F.R. §

264.1087(c)(2)(i)).

III.E.4.e.iii You must comply with 40 C.F.R. § 264.1087(c)(2)(ii) through (c)(2)(vi) concerning the planned routine maintenance, control system device malfunction, record keeping, demonstration, correcting malfunctions, and other operating requirements.

III.E.4.e.iv You must operate and maintain the control device in accordance with the requirements of 40 C.F.R.§ 264.1087(c)(3). You must replace the existing carbon in the control device with fresh carbon by the following procedures:

a. Breakthrough of carbon between each primary and secondary carbon box is deemed to occur whenever Inter-Box Continuous Emission Monitor (CEMS) data equal to or greater than 50 ppm total hydrocarbons (THC) on a 60-minute rolling average occurs.

b. Whenever breakthrough between a primary and a secondary carbon box occurs, you must change out the primary box within the 12 hour and 48 hour time limitations set forth in the applicable paragraphs of the current or most recent version of the Routine Maintenance Procedure that became effective under the terms of the Consent Decree between EPA and Von Roll America in *United States v. Von Roll America, Inc.*, No. 4:06CV2893 (N.D. Ohio); which paragraphs are incorporated herein by reference.

c. If within 15 days after having completed a change-out of a primary box, you experience an Inter-Box CEMS reading equal to or greater than 50 ppm THC on a 60-minute rolling average on the train that has been changed out, you are not required immediately to initiate and complete a new change-out of the primary box. Instead, as expeditiously as possible, you must initiate and complete an investigation of the cause(s) of the elevated Inter-Box CEMS reading to determine if the carbon within the primary box actually is spent or otherwise not functional and take actions set forth in paragraph 22 of the Consent Decree (40 C.F.R. §§

264.1087(c)(3)(i) and 264.1033(h)(2))

d. As discussed at paragraph 23 of the 2007 Consent Decree provisions, those provisions do not limit You from replacing the boxes on a more frequent basis or at any time You determine that carbon within any box is not effectively adsorbing volatile organic compounds.

III.E.4.f All carbon that is hazardous waste and that is removed from the carbon adsorption system must be managed in accordance with the requirements of 40 C.F.R. § 264.1087(c)(3)(ii) and § 264.1033(n) regardless of the average volatile organic concentration of the carbon. You must prepare and maintain records sufficient to demonstrate that the requirements of this provision are satisfied as part of the facility operating record.

III.E.4.g Closed vent systems and control devices used to comply with this permit must be operated at all times when emissions may be vented to them. (40 C.F.R. § 264.1033(m)).

III.E.5. You must control air pollutant emissions from the shredder and its ancillary equipment in compliance with the requirements at 40 C.F.R. § 264.1087(c)(1)(i), 40 C.F.R. § 264.1084(g), and 40 C.F.R. § 264.1084(i)(1) and (i)(2). The emission control must consist of: (1) an enclosure housing and its attached doors and openings, (2) a closed vent system, including an exhaust fan with a capacity to maintain a negative pressure inside the enclosure and the ductwork connecting the enclosure to a control device, and (3) a carbon adsorption system functioning as the control device with an efficiency of 95%. You must inspect and monitor the closed-vent system and control device as specified in 40 C.F.R. §§ 264.1084(i)(4) and 264.1087.

III.E.6 The design and operation of shredder, the conveyors, and the container dumping and movement chambers must also comply with the following requirements:

III.E.6.a The shredder must be designed, and operated and maintained, in accordance with the operational specifications described in the Permit application. The gases, vapors, and fumes emitted from hazardous waste in the shredder must be vented by the closed vent system to the carbon adsorption system to be treated.

III.E.6.b The shredder consists of a feed chamber, shredding chamber, discharge chamber, and a receiving container. The shredder must comply with the following requirements:

III.E.6.c You must design and operate the shredder in accordance with the criteria for a permanent total enclosure as specified in "Procedure T – Criteria for and Verification of a Permanent or Temporary Total Enclosure" under 40 C.F.R. § 52.741, Appendix B (Procedure T). You must perform the verification procedure for the shredder as specified in Section 5.0 of such procedure T annually. The first such test must be performed after installation is complete and within 30 days prior to the first use of hazardous waste operations. Before you conduct the annual Procedure T test, You must notify the EPA, including a brief description and date of the test, monitoring equipment to be used, calibration and design specification of the monitoring devices, and other related information. In order for the shredder to begin the shredding process, all doors of the shredder must engage the close sensor, the inerting process must achieve < 9.6% oxygen within the sealed unit, and the closed vent system and control device (carbon adsorption system) must be operational. If any of these conditions are not met, the shredder may not begin shredding operations.

III.E.6.d All access doors or other openings whose areas are not included in determining the total area of natural draft openings (NDOs) under paragraphs 4.1 (with reference to paragraph 3.3) or 5.2 of Procedure T must be kept closed during routine operation of the process. Routine operation of the process includes those times when hazardous waste is present in the shredder, when gases, vapors, or fumes from hazardous waste are present in the shredder, and when the drum scraping auger is in operation. In cases of emergency or malfunction, the door may be open in such conditions, but only as long as necessary to allow authorized personnel equipped with all necessary safety devices and other equipment, to enter and exit the shredder to safely address the emergency or malfunction.

III.E.6.e Each time You perform the verification procedure in Section 5 of Procedure T, You must prepare written documentation accurately recording all results of the procedure. All such documentation must be maintained as part of the facility operating record for at least three years.

III.E.7 You must inspect and monitor the air emission control equipment in accordance with the requirements specified in 40 C.F.R §§ 264.1084(g)(3) and (l), 264.1087, and 264.1033(l). In the event that any defect is detected, You must repair and address any defect in accordance with 40 C.F.R. § 264.1084(k). You must maintain a record of the inspection in accordance with the requirements specified at 40 C.F.R. §§ 264.1084(g)(3) and 264.1089(b). (40 C.F.R. § 264.1084(g)(3))

III.E.8 You must transfer hazardous waste to the shredder in accordance with the requirements at 40 C.F.R. § 264.1084(j).

III.E.9 Each closed vent system and carbon adsorption system must comply with the following requirements:

III.E.9.a The closed vent system must route the gases, vapor, and fumes emitted from the hazardous waste in the shredder to the carbon adsorption system.

III.E.9.b The closed vent system and carbon adsorption system (used as a control device) must comply with the requirements in 40 C.F.R. § 264.1087. The closed vent system must comply with the requirements of 40 C.F.R. § 264.1033(k)(2).

III.E.9.c The closed vent system and carbon adsorption system must be operated, and negative pressure must be maintained within the shredder, at all times when the drum scraping auger is in operation, when hazardous waste is present in the shredder, when the drum scraping auger is being loaded, or when vapor from hazardous waste is present in the shredder. You must continue to operate the exhaust fan and closed vent system after waste is no longer present in the shredder and after the drum scraping auger has been turned off until all vapors in the shredder have been vented into the vent duct and to the control device. You must determine the necessary waiting time based on the exhaust fan capacity; the volume of the shredder, including the vent duct and auger for back-flow; and other pertinent data of the vapor. You must document in writing and retain at the facility such determination and the end results of any associated calculations.

III.E.9.d The carbon adsorption system must have a minimum removal efficiency of 95 percent by weight as specified in 40 C.F.R. §

264.1087(c)(1)(i). You must demonstrate that the carbon adsorption system achieves this performance standard as specified in 40 C.F.R. § 264.1087(c)(5) and (c)(6).

III.E.9.e The concentration level of the organic compounds in the exhaust vent stream from the carbon adsorption system must be accurately monitored with one of the following frequencies: (a) daily, or (b) an interval that is no greater than 20 percent of the time required to consume the total carbon working capacity established as a requirement of 40 C.F.R. § 264.1035(b)(4)(iii)(G), whichever is longer. The carbon adsorption system must be monitored by a method appropriate for the facility that can detect carbon breakthrough. You must calibrate, inspect and maintain the monitoring device as required by the device's manufacture specifications to assure proper function. You must replace the existing carbon in the control device with fresh carbon immediately when carbon breakthrough is indicated. (40 C.F.R. §§ 264.1087(c)(3)(i) and 264.1033(h)(1))

III.E.9.f You must maintain a carbon adsorption maintenance log at the site. Such maintenance log must include, but must not be limited to, (i) a description of the method of monitoring the concentration level of organic compounds in the exhaust vent stream; (ii) a description of the method of determining carbon breakthrough; (iii) results of the daily monitoring activities; (iv) a description of the monitoring device and procedures, along with the manufacturer's specifications; (v) results of calibration, inspection, and maintenance of the monitoring detector; (vi) written documentation of each determination that the carbon breakthrough had been achieved and the data on which such determination relied; (vii) the date of each carbon bed replacement, the amount of carbon removed and the amount of carbon added; (viii) for each time carbon is removed from the carbon adsorption system, and adequate description of the method of disposal and/or regeneration of the spent carbons; and (ix) any other inspection and maintained records. The log must be maintained as part of the facility operating record.

III.E.9.g All carbon that is hazardous waste and that is removed from the carbon adsorption system must be managed in accordance with the requirements of 40 C.F.R. § 264.1087(c)(3)(ii) and § 264.1033(n), regardless of the average volatile organic concentration of the

carbon. You must prepare and maintain records sufficient to demonstrate that the requirements of this provision are satisfied, as part of the operating record.

III.E.9.h The closed vent system must not include any bypass device that could be used to divert the gas or vapor stream to the atmosphere before entering the control device, unless it is equipped with either a flow indicator or a seal or locking device specified in 40 C.F.R. § 264.1087(b)(3).

III.E.9.i The closed vent system must have an exhaust fan with a sufficient capacity to maintain a negative pressure inside the shredder. You must determine an appropriate minimum fan capacity determined from a written design analysis or from a performance test. You must maintain such a minimum fan capacity while the drum scraping auger is in operation. In addition, You must maintain as part of the facility operating records either the written design analysis, or a written performance test plan and all test results.

III.E.9.j You must inspect, monitor, and maintain the closed vent system in accordance with 40 C.F.R. §§ 264.1087(b)(4), 264.1033(f)(2) and (l), and 264.1087(c)(7). You must inspect, monitor, and maintain the carbon adsorption system in accordance with the requirements in 40 C.F.R. § 264.1087(c)(7). You must develop and implement a written plan and schedule to perform the inspections and monitoring required by this paragraph. You must incorporate this plan and schedule into any inspection plan required by the State RCRA permit. (40 C.F.R. § 264.1088)

III.E.9.k You must repair and address each defect detected during an inspection performed in accordance with Section VII.D.3.i, according to requirements specified in 40 C.F.R. §§ 264.1033(l)(3), 264.1084(k), and 264.1087(c)(7).

III.E.10 You must comply with the inspection and monitoring requirements at 40 C.F.R. § 264.1088, the recordkeeping requirements at 40 C.F.R. § 264.1089, and the reporting requirements for tanks and control devices at 40 C.F.R. § 264.1090.

III.F RECORDKEEPING AND REPORTING REQUIREMENTS

III.F.1 For tanks, containers, and miscellaneous units, you must comply with all applicable recordkeeping and reporting requirements described in 40 C.F.R. §§ 264.1089 and 264.1090.

III.F.2 You must prepare and maintain records for miscellaneous units in the same manner as required for tanks under 40 C.F.R. § 264.1089, including but not limited to 40 C.F.R. § 264.1089(a), (b)(1) and (2)(iv). You must prepare and maintain records for the vent system and the control device in the manner described in 40 C.F.R. § 264.1089, including 40 C.F.R. § 264.1089(a), (b)(2)(iv), and (e).

III.F.3 You must comply with all reporting requirements for the control devices under 40 C.F.R. § 264.1090(c) and (d). Such reports must be sent to EPA (at the address specified in Section I.G, above). You must also report to EPA (at the address specified in Section I.G. above) any time that hazardous waste in tanks, containers, and/or miscellaneous units is not managed in compliance with the conditions specified in Sections III.B, III.C, III.D, III.E, and/or III.F of this permit, in the manner specified in 40 C.F.R. § 264.1090(b).

III.G SUMMARY TABLE OF 40 C.F.R. PART 264 SUBPART CC APPLICABILITY AND EXEMPTIONS FOR TANKS AND CONTAINERS

Unit or Equipment	VOC/Percent Organics (Assumed)	Alternative CAA Regulation	Unit Description	Subpart CC Applicability	Control Device
Tank T-1	> 500 ppmw	N/A	Fuel oil storage	Subject to 40 C.F.R. Part 264 Subpart CC Conditions	Vapor Recovery System
Shredder Unit	> 500 ppmw	N/A	Hazardous Waste Shredder Unit	Subject to 40 C.F.R. Part 264 Subpart CC Conditions	Vapor Recovery System
Tanks T-2 through T-18	> 500 ppmw	40 C.F.R. Part 61 Subpart FF	Stores hazardous waste containing benzene	CAA Overlap Exemption	Vapor Recovery System
Tanks PT-1	> 500 ppmw	40 C.F.R. Part	Stores	CAA Overlap	Vapor

through PT-5		61 Subpart FF	hazardous waste containing benzene	Exemption	Recovery System
S-1 and S-2	> 500 ppmw	40 C.F.R. Part 61 Subpart FF	Feed Building Solid-Waste Tanks	CAA Overlap Exemption	Vapor Recovery System
W-4 and W-5	< 500 ppmw	N/A	Store run-on/off process water	Exempt from Subpart CC	N/A
W-6 through W-8	< 500 ppmw	N/A	Store process water from Four Stage Wet Scrubber	Exempt from Subpart CC	N/A
W-9	< 500 ppmw	N/A	Rapid Sand Filter Tank	Exempt from Subpart CC	N/A
W-10	< 500 ppmw	N/A	Carbon Filter Tank	Exempt from Subpart CC	N/A
L-1	< 500 ppmw	N/A	Laboratory Waste Tank	Exempt from Subpart CC	N/A
Container Processing Building	> 500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Container Storage Area	CAA Overlap Exemption	Vapor Recovery System
Building A	> 500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Drum Warehouse	CAA Overlap Exemption	Vapor Recovery System
Building B	> 500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	External Truck Wash	CAA Overlap Exemption	Vapor Recovery System
Building C	> 500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Lab Pack Building	CAA Overlap Exemption	Vapor Recovery System
Truck	> 500 ppmw	40 C.F.R. Part	Truck	CAA Overlap	Vapor

s1Holding Sampling Area		61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Holding Sampling Area	Exemption	Recovery System
Container Holding Building	> 500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Slag Canopy	CAA Overlap Exemption	Vapor Recovery System
North Storage Area	>500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Container Storage Area	CAA Overlap Exemption	N/A
East Storage Area	>500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Container Storage Area	CAA Overlap Exemption	N/A
Bulk Solid Storage Area	>500 ppmw	40 C.F.R. Part 61 Subpart FF and 40 C.F.R Part 63 Subpart DD	Container Storage Area	CAA Overlap Exemption	N/A