UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT

Facility Name and Location: Heritage-WTI, Inc. (WTI)
1250 St. George Street
East Liverpool, Ohio 43920

Owner(s): Heritage-WTI, Inc. (WTI)
1250 St. George Street
East Liverpool, Ohio 43920

Operator(s): Heritage-WTI, Inc. (WTI)
1250 St. George Street
East Liverpool, Ohio 43920

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

Effective Date: _____

Expiration Date: **March 23, 2015**

Authorized Activities:

The United States Environmental Protection Agency (U.S. EPA) hereby issues a Resource Conservation and Recovery Act (RCRA) permit (hereinafter referred to as the "permit") to **Heritage-WTI, Inc. (WTI)**(Owner and Operator hereinafter referred to as the "Permittee" or addressed in the second person as "you") in connection with the hazardous waste treatment, storage, and disposal facility 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 USC § 6901 *et seq.*) (collectively referred to as RCRA) and U.S. EPA's regulations promulgated thereunder (codified, and to be codified, in Title 40 of the Code of Federal Regulations (40 CFR)).

Specifically, this permit addresses (1) air emissions standards for equipment leaks (40 CFR Part 264, Subpart BB), for tanks and containers (40 CFR Part 264, Subpart CC), and for miscellaneous units (40 CFR Part 264, Subpart X); and (2) other federal RCRA regulations for which the state has not yet been authorized.

The RCRA permit is comprised 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 CFR Part 271 (hereinafter called the "state-issued portion of the RCRA permit"). Any hazardous waste activity which requires a RCRA permit and is not included in the RCRA permit is prohibited.

Permit Approval:

On June 30, 1989, the State of Ohio received final authorization pursuant to Section 3006 of RCRA, 42 USC § 6926, and 40 CFR 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 the U.S. EPA has not yet authorized the State of Ohio to administer certain regulations, including air emission standards for equipment leaks, tanks and containers, and air emission standards associated with miscellaneous units, and certain other regulations, the U.S. EPA Region 5 is issuing the RCRA permit requirements for operations at the Permittee's 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, all documents attached hereto and all documents listed or cross-referenced in these documents, approved submittals (including plans, schedules and other documents), and the applicable regulations contained in 40 CFR Parts 124, 260, 261, 262, 264, 266, 268, 270, and applicable provisions of RCRA.

This permit is based on the assumptions that the information submitted: (1) in the Permittee's RCRA permit renewal application and in any subsequent modifications to that application (hereinafter referred to as the "Application"), is accurate, and (2) that the facility is configured, operated and maintained as specified in the permit, and as described in the Application.

Any inaccuracies in the submitted information may be grounds for the U.S. EPA to terminate, revoke and reissue, or modify this permit in accordance with 40 CFR §§ 270.41, 270.42 and 270.43; and for enforcement action. You must inform the U.S. EPA of any deviation from, or changes in, the information in the Application 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 the U.S. 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 CFR § 124.19.

Effective Date:

This permit is effective as of _____ and will remain in effect until March 23, 2015, unless revoked and reissued under 40 CFR § 270.41, terminated under 40 CFR § 270.43, or continued in accordance with 40 CFR § 270.51(a).

By: _____ Date: _____

Margaret M. Guerriero, Director
Land and Chemicals Division

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SECTION I -- STANDARD PERMIT CONDITIONS

I.A EFFECT OF PERMIT

The RCRA permit is comprised of both this permit, which contains the effective federal RCRA permit conditions, and the effective state-issued portion of the RCRA permit. You are hereby allowed to manage hazardous waste in accordance with this permit. Under this permit, the storage and treatment of RCRA hazardous waste must comply with all terms and conditions in this permit. Other aspects of the storage and treatment 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 in the RCRA permit, is prohibited.

Subject to 40 CFR § 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 part 40 CFR Part 268 restricting the placement of hazardous waste in or on the land; (3) are promulgated under 40 CFR Part 264 regarding leak detection systems; or (4) are promulgated under subparts AA, BB, or CC of 40 CFR Part 265 limiting air emissions. (40 CFR § 270.4)

This permit does not: (1) convey any property rights or any exclusive privilege (40 CFR § 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) Section 3013 or 7003 of RCRA; (2) Sections 104, 106(a), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 USC §§ 9601 *et seq.* (commonly known as CERCLA); or (3) any other law protecting human health, welfare, or the environment.

I.B PERMIT ACTIONS

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

The U.S. EPA may review and modify, revoke and reissue, or terminate this permit for cause, as specified in 40 CFR § 270.41, § 270.42, and § 270.43. The U.S. EPA may also review and modify this permit, consistent with 40 CFR § 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 CFR § 270.30(f))

You may request a modification of this permit under the procedures specified in 40 CFR § 270.42. 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 days after submission of the request unless the Director, Land and Chemicals Division, U.S. EPA Region 5 (Director), establishes a later date. (40 CFR § 270.42(b)(8))

I.B.2 Permit Renewal

This permit may be renewed as specified in 40 CFR § 270.30(b) and Condition I.E.2 of this permit. In reviewing any application for a permit renewal, the U.S. EPA will consider improvements in the state of control and measurement technology, and changes in applicable regulations. (40 CFR § 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 CFR § 124.16(a))

I.D DEFINITIONS

The terms used in this permit will have the same meaning as in 40 CFR 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

1.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 CFR § 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; modification; or denial of a permit renewal application. (40 CFR § 270.30(a))

I.E.2 Duty to Reapply

If you wish to continue the permit regulated activities after the expiration date, you must apply for and obtain a new permit. You must submit a complete application for a new permit at least 180 days before the permit expiration date, unless the Director grants permission for a later submittal date. The Director will not grant permission to submit the

complete application for a new permit later than the permit's expiration date. (40 CFR § 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 the expiration date of this 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 CFR § 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 CFR §§ 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 CFR § 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 CFR § 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 CFR § 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. The information you must maintain under this permit is not subject to the Paperwork Reduction Act of 1980, 44 USC §§ 3501 *et seq.* (40 CFR §§ 264.74(a) and 270.30(h))

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 (40 CFR § 270.30(i)):

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, at reasonable times, any substances at any location to ensure permit compliance or as RCRA otherwise authorizes.

Notwithstanding any provision of this permit, U.S. EPA retains the inspection and access authority which it has under RCRA and other applicable laws.

I.E.9 Monitoring and Records

I.E.9.a Samples and measurements taken for monitoring purposes must be representative of the monitored activity. The methods used to obtain a representative sample of the wastes, contaminated media, treatment residue, or other waste to be analyzed must be the appropriate methods from Appendix I of 40 CFR Part 261, or the methods specified in the state-approved and/or U.S. EPA-approved waste analysis plan, or an equivalent method approved by the Director. Laboratory methods 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 analysis plan. (40 CFR § 270.30(j)(1))

I.E.9.b You must retain, at the facility, all records as specified in 40 CFR § 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 CFR §§ 270.30(j), 270.31, and 264.74(b))

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 CFR § 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 CFR § 270.30(l)(2))

I.E.12 Certification of Construction

Subject to the requirements of 40 CFR § 270.32(b)(2) and § 270.42 Appendix I, 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. That letter must state that the portions of the facility covered by this permit (including all air emission control devices required by this permit) have been constructed in compliance with the applicable conditions of this permit (40 CFR § 270.30(l)(2)). In addition, you must not operate the permitted control devices until either:

I.E.12a 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.12b The Director waives the inspection, if the inspection is not conducted within 30 days from the receipt of the certification.

I.E.13 Transfer of Permits

This permit is not transferable to any person, except after notice to the Director. You must inform the Director and obtain prior approval of the Director before transferring ownership or operational control of the facility (40 CFR § 270.42, Appendix I). Under 40 CFR § 270.40, the Director may require permit modification, or revocation and reissuance to change the Permittee's name 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 this permit and the requirements of 40 CFR Parts 264, 268, and 270. (40 CFR §§ 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 noncompliance.

I.E.14.b The oral report discussing the occurrence and its cause must include the following information (40 CFR §§ 270.30(l)(6) and 270.33): (1) release of any hazardous waste that may endanger public drinking water supplies; (2) release or discharge of hazardous waste; or (3) fire or explosion from the hazardous waste management facility. You must include the following information:

(1) Name, title and telephone number of the person making the report;

(2) Name, address and telephone number of the facility;

(3) Name, address and telephone number of owner or operator;

(4) Date, time and type of incident;

(5) Location and cause of incident;

(6) Identification and quantity of material(s) involved;

(7) Extent of injuries, if any;

(8) Assessment of actual or potential hazards to the environment and human health outside the facility, where applicable;

(9) Description of any emergency action taken to minimize the threat to human health and the environment; and

(10) Estimated quantity and disposition of recovered material that resulted from the incident.

I.E.14.c In addition to the oral notification required under Conditions 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:

(1) Name, address and telephone number of the person reporting;

(2) Incident description (noncompliance including any 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;

(3) Period(s) in which the incident (noncompliance including any release or discharge of hazardous waste) occurred, including exact dates and times;

(4) 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

(5) 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 Conditions I.E.14.a and I.E.14.b of this permit. (40 CFR § 270.30(1)(6))

I.E.15 Other Noncompliance

You must report all instances of noncompliance not reported under Condition I.E.14 of this permit, when any other reports this permit requires are submitted. The reports must contain the information listed in Condition I.E.14. (40 CFR § 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 permit application or other submittal, or submitted incorrect information in the 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 CFR § 270.30(l)(11))

I.E.16.b All other requirements contained in 40 CFR § 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 CFR § 270.11. (40 CFR § 270.30(k))

I.G REPORTS, NOTIFICATIONS AND SUBMITTALS

Except as otherwise specified in this permit, all reports, notifications, or other submittals that this permit requires to be submitted to the Director, the Regional Administrator, or to U.S. EPA should be sent by certified mail, express mail, or hand-delivered to the U.S. Environmental Protection Agency, Region 5, at the following address:

RCRA Branch, LR-8J
Land and Chemicals Division
U.S. EPA Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

I.H CONFIDENTIAL INFORMATION

In accordance with 40 CFR Part 2 Subpart B, you may claim any information this permit requires, or is 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 CFR Part 2. (40 CFR § 270.12)

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 CFR §§ 264.1035, 264.1064, 264.1084, 264.1088, 264.1089 and 40 CFR § 264.73 (as they apply to the equipment used to comply with this permit).

I.I.2 Notifications

If you receive hazardous waste(s) from off-site generator(s), you must maintain notifications from generators accompanying initial incoming shipment of wastes subject to 40 CFR Part 268 Subpart C, that specify treatment standards, as required by 40 CFR §§ 264.73, 268.7, and this permit.

I.I.3 Copy of Permit

You must keep a copy of this permit on site, including all 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 action 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 CFR Parts 124, 260, 261, 262, 264, 268, 270, and the 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 Condition 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 all applicable Clean Air Act (CAA) and RCRA permit limits. Where two or more operating limitations apply, the most stringent operating limitations take precedence.

SECTION II -- OTHER FEDERAL RCRA REQUIREMENTS

II.A ADDITIONAL HAZARDOUS WASTE NUMBERS

In addition to the hazardous waste numbers listed in the state-issued portion of the RCRA permit, you may handle the newly listed hazardous wastes, promulgated under the HSWA, at your facility only if you have processed a Class 2 permit modification in accordance with 40 CFR § 270.42(g). All handling of these wastes must comply with the provisions of the state-issued portion of the RCRA permit that (i) are applicable to hazardous wastes, and (ii) are in accordance with regulations for which the state has been federally authorized pursuant to Section 3006 of RCRA (42 USC § 6926), and 40 CFR Part 271. In addition, all handling of these wastes must also comply with all provisions of the federally-issued portion of the RCRA permit.

Hazardous Waste Numbers: K181

SECTION III -- AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS (40 CFR Part 264, Subpart BB)

III.A GENERAL

III.A.1 In accordance with 40 CFR § 264.1064(m), if equipment is subject to 40 CFR Part 264, Subpart BB and to regulations at 40 CFR Part 60, 61, or 63, the Permittee may elect to determine compliance with 40 CFR Part 264. Subpart BB either by documentation pursuant to 40 CFR § 1064 of this subpart, or by documentation of compliance with the regulations at 40 CFR Part 60, 61, or 63. The documentation of compliance under 40 CFR Part 60, 61, or 63 shall be kept with or made readily available with the facility operating record.

III.A.2 If the Permittee elects to determine compliance with the regulations at 40 CFR Part 60, 61, or 63 pursuant to the relevant provisions of the regulations at 40 CFR Part 60, 61, or 63, the air emission standards for equipment leaks specified hereinafter shall not apply.

III.A.3 The exemption in III.A.2 above is applicable only for periods during which the equipment is operated, monitored and repaired in accordance with an air emission standard in 40 CFR Part 60, 61, or 63 that is applicable to the equipment. For any period of during which any piece of equipment used in your facility is subject to the requirements of 40 CFR Part 264, Subpart BB, and during which:

III.A.3.a such equipment is not subject to regulation under an applicable air emission standard in 40 CFR Part 60, 61, or 63;

III.A.3.b the applicable standard does not require that such equipment be operated monitored, and repaired in accordance with the standard; or

III.A.3.c the standard does not require that appropriate records of such equipment be prepared and maintained;

then you must comply with and keep documentation of compliance in accordance with the requirement of Subpart BB.

III.A.4 The Permittee shall provide annually to the Director a certification describing the Permittee's election of compliance.

III.B EQUIPMENT LEAKS (40 CFR Part 264, Subpart BB)

The Permittee must process a permit modification and have it approved by the Director, prior to installation and operation of a compressor(s) which is (are) in contact with hazardous waste with organic concentrations of at least 10 percent by weight.

III.B.1 Waste Determination and Equipment

The Permittee must determine each hazardous waste stream for which (1) the hazardous waste is *"In light liquid service"* as defined in 40 CFR § 264.1031 and (2) the hazardous waste has an organic concentration of at least 10 percent by weight.

You must comply with all applicable requirements of 40 CFR § 264.1050 through 40 CFR § 264.1065, regarding air emission standards for equipment leaks.

III.B.2 Pumps in Light Liquid Service (40 CFR § 264.1052)

III.B.2.a Each pump in light liquid service must be monitored monthly to detect leaks by the methods specified in 40 CFR § 264.1063(b), except: any pump that is (1) equipped with a dual mechanical seal system and for which the requirements of 40 CFR § 264.1052(d) are satisfied, (2) designated, as described in 40 CFR § 264.1064(g)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, and for which the requirements of 40 CFR § 264.1052(e) are satisfied, or (3) equipped with a closed vent system complying with the requirements of 40 CFR § 264.1052(f).

III.B.2.b Each pump in light liquid service shall be checked by visual inspection each calendar week for seal leaks.

III.B.2.c A leak is detected if: (1) an instrument reading of 10,000 ppm or greater is measured, or (2) there is an indication of liquid dripping from the pump seal.

III.B.2.d When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR §264.1059 - Standards: Delay of repair. The first attempt at repair must be made no later than 5 calendar days after each leak is detected.

III.B.3 Pressure Relief Devices in Gas/Vapor Service (40 CFR § 264.1054)

III.B.3.a Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, based on the method specified in 40 CFR § 264.1063(c). (40 CFR § 264.1054(a))

III.B.3.b After each pressure release, the pressure relief valve shall be returned to a condition of no detectable emissions (i.e., less than 500 ppm above background based on the method specified in 40 CFR § 264.1063(c)), as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR § 264.1059. (40 CFR § 1054(b)(1))

III.B.3.c No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR § 264.1063(c). (40 CFR § 264.1054(b)(2); 40 CFR § 264.1063(c))

III.B.3.d Any pressure relief device that is equipped with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in 40 CFR § 264.1060 is exempt from the requirements in Condition III.B.3.a through III.B.3.c.

III.B.4 Sampling Connection Systems (40 CFR § 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:

III.B.4.a Return the purged process fluid directly to the process line;

III.B.4.b Collect and recycle the purged process fluid; or

III.B.4.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 CFR § 264.1084 through § 264.1086 or a control device that complies with 40 CFR § 264.1060, Standards for Closed-Vent Systems and Control Devices.

III.B.5 Open-ended Valves or Lines (40 CFR § 264.1056)

III.B.5.a Each open-ended valve or line must be equipped with a: (1) cap, (2) blind flange, (3) plug, or (4) second valve, which seals the open end at all times except during operations requiring hazardous waste stream flow through the open-ended

valve or line.

III.B.5.b 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.

III.B.5.c Each open-end valve or line equipped with a second valve shall be operated in a manner such that the valve on the hazardous waste stream end is closed before the second valve is closed.

III.B.6 Valves in Gas/Vapor Service or in Light Liquid Service (40 CFR § 264.1057)

III.B.6.a Each valve in gas/vapor service or in light liquid service shall be monitored monthly to detect leaks in accordance with 40 CFR § 264.1057(a) and (c), except as provided in 40 CFR §§ 264.1057(f), (g), and (h).

III.B.6.b If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. When a leak is detected, it must be repaired as specified in 40 CFR §§ 264.1057(d) and (e).

III.B.7 Pumps and Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges and Other Connectors (40 CFR § 264.1058)

III.B.7.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 5 days by the method specified in 40 CFR § 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.

III.B.7.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 CFR § 264.1059. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

III.B.7.c First attempts at repair include, but are limited to, the best practices described under 40 CFR § 264.1057(e).

III.B.7.d Any connector that is inaccessible or is ceramic or ceramic-lined is exempted from the monitoring requirements. (40 CFR § 264.1058(e))

III.B.8 Delay of Repair (40 CFR § 264.1059)

III.B.8.a Delay of repair of equipment for which leaks have been detected will be allowed if: (1) the repair is technically infeasible without a hazardous waste management unit shutdown (in such cases, repair of this equipment shall occur

before the end of the next hazardous waste management unit shutdown); or (2) 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 % by weight .

III.B.8.b Delay of repair for valves will be allowed if: (1) emissions of purged material resulting from immediate repair are greater than the emissions likely to result from delay of repair; and (2) when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40 CFR § 264.1060.

III.B.8.c Delay of repair for pumps will be allowed if: (1) repair requires the use of a dual mechanical seal system that includes a barrier fluid system; and (2) repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

III.B.8.d Delay of repair beyond a hazardous waste management unit shutdown will be allowed for a valve only if provisions of 40 CFR § 264.1059(e) are met.

III.B.9 Closed-Vent Systems and Control Devices (40 CFR § 264.1060)

Closed-vent systems and control devices used to meet the requirements of this Section III shall comply with the provisions of 40 CFR §§ 264.1033 and 264.1060.

III.B.10 Alternative Standards for Valves in Gas/Vapor Service or in Light Liquid Service; Percentage of Valves Allowed to Leak (40 CFR § 264.1061)

You may elect to have all valves within a hazardous waste management unit comply with an alternative standard that allows no greater than 2 % of the valves to leak. If you elect to comply with this alternative standard, you must comply with the provisions of 40 CFR §§ 264.1061(b) and (c).

III.B.11 Alternative Standards for Valves in Gas/Vapor Service or in Light Liquid Service: Skip Period Leak Detection and Repair (40 CFR § 264.1062)

You may elect for all valves subject to the requirements of 40 CFR § 264.1057 within a hazardous waste management unit to comply with one of the alternative work practices specified below. If you elect to comply with one of the alternative work practices, you must comply with all the requirements for valves as described in III.B.6 of this permit, except as specified in III.B.11.a and III.B.11.b below:

III.B.11.a After 2 consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2 %, you may begin to skip one of the quarterly leak detection periods for the valves.

III.B.11.b After 5 consecutive quarterly leak detection periods with the percentage

of valves leaking equal to or less than 2 %, you may begin to skip 3 of the quarterly leak detection periods for the valves.

You must monitor valve leaks monthly in accordance with 40 CFR § 264.1057, if the percentage of valves leaking is greater than 2 %, but you may again elect to use the alternative standards after meeting the requirements of 40 CFR § 264.1057(c)(1).

III.B.12 Test Methods and Procedures (40 CFR § 264.1063)

The leak test methods and procedures must be as specified in 40 CFR § 264.1063.

III.B.13 Recordkeeping and Reporting Requirements (40 CFR §§ 264.1064 and 264.1065)

You must comply with the recordkeeping and reporting requirements of 40 CFR § 264.1064 and 264.1065.

SECTION IV -- AIR EMISSION STANDARDS FOR TANKS AND CONTAINERS (40 CFR Part 264, Subpart CC)

IV.A GENERAL

IV.A.1 If a hazardous waste management unit is equipped with and operating air emission controls in accordance with the requirements of an applicable Clean Air Act regulation under 40 CFR Part 60, 61, or 63, you may elect to exempt the unit from regulation under Section IV of this permit if you provide a certification that the hazardous waste management unit is equipped with and operating air emission controls in accordance with such requirements. Such certification must be renewed annually and shall specify the regulations under 40 CFR Part 60, 61, or 63 that require the air emission controls. (40 CFR § 264.1080(b)(7))

IV.A.1.a As required by 40 CFR § 264.1089(j), you must retain at the facility for each such unit a copy of the current certification. Such certification must be provided to U.S. EPA's representative or designee upon request. These documents shall be retained in the manner and for the period specified in 40 CFR § 264.10089(a).

IV.A.1.b If the tank is one for which the air emission control includes an enclosure, such as tanks S-1 and S-2, the tank must be in compliance with the requirements of 40 CFR § 264.1084(i) or § 264.1082(c)(5).

IV.A.2 Each tank or container in which hazardous wastes are placed must comply with the terms and conditions of this Section IV, unless you make the election in, and satisfy all the requirements of, Condition IV.A.1 above for the tank or container.

IV.A.3 You must comply with the terms and conditions of this Section IV for any tank or container, notwithstanding any election and certification under Condition IV.A.1 above, in the following circumstances:

IV.A.3.a the regulation under 40 CFR Part 60, 61, or 63 on which the election and certification under Condition IV.A.1 depend is no longer applicable to the tank or container; or

IV.A.3.b the regulation under 40 CFR Part 60, 61, or 63 on which the election and certification under Condition IV.A.1 depend, although applicable to the tank or container, does not or no longer requires that air emissions from the tank or container be controlled.

When either condition in Condition IV.A.3.a or IV.A.3.b occurs, you must immediately comply with the terms and conditions of this Section IV for such tank or container, and continue compliance until neither condition in Condition IV.A.3.a or IV.A.3.b applies for the tank or container and the conditions in Condition IV.A.1 are again satisfied.

IV.B WASTE DETERMINATION

IV.B.1 You must determine the average volatile organic (VO) concentration of: (1) generated hazardous waste at the point of origination, and (2) treated hazardous waste, in accordance with the procedures specified in 40 CFR § 264.1083.

IV.B.2 You must determine the maximum organic vapor pressure of a hazardous waste in a tank is as specified in 40 CFR §§ 264.1084(c) and 265.1084(c)(2) through (c)(4).

IV.B.3 The procedure for determining no detectable organic emissions must be conducted in accordance with 40 CFR § 265.1084(d).

IV.C TANKS

IV.C.1 General

IV.C.1.a You must control air pollutant emissions from each hazardous waste storage tank in accordance with standards specified in 40 CFR §§ 264.1080 through 1082, 264.1084 and 264.1087 through 264.1090, except as specifically provided otherwise in this permit. The tanks used for storage of hazardous waste must be designed, constructed, and maintained consistent with applicable industrial standards to ensure their integrity and safety.

IV.C.1.b You are authorized to store hazardous wastes with an average VO concentration at the point of origination of equal or greater than 500 ppmw in the following tanks, in accordance with the provisions of this permit:

(1) Tank Farm (T-1 through T-18, PT-1 through PT-5)
(2) Process Water Tanks (W-6 through W-8)
(3) Bulk Feed Tanks (S-1 and S-2)
(4) Laboratory waste (L-1)

IV.C.2 Tank Farm

The hazardous waste tank farm shall consist of the following tanks.

Tank No.	Identification	Description
T-1	04-1220	Fuel Oil Tank (mixed with aqueous waste)
T-2	04-1302	Blending Tank No. 3
T-3	04-1385	Overflow Tank 00F08
T-4	04-1303	Blending Tank No. 2
T-5	04-1301	Blending Tank No. 1
T-6	04-1202	Sludge Tank No.2
T-7	04-1201	Sludge Tank No.1
T-8	04-1105	Solvent Tank (Formerly Liquid Reception Tank)
T-9	04-1102	Solvent Tank (Formerly Sludge Reception Tank)
T-10	04-1212	Organic Liquid Tank No. 2 (Soluble Waste)
T-11	04-1211	Organic Liquid Tank No. 1 (Soluble Waste)
T-12	04-1216	Aqueous Liquid Tank No. 2
T-13	04-1215	Aqueous Liquid Tank No. 1
T-14	04-1210	Organic Liquid Tank No. 2 (Insoluble Waste)
T-15	04-1207	Organic Liquid Tank No. 1 (Insoluble Waste)
T-16	04-1206	Organic Liquid Tank No. 2 (Chlorinated Waste)
T-17	04-1205	Organic Liquid Tank No. 1 (Chlorinated Waste)
T-18	04-1380	Overflow Tank
PT-1	02-1231	Pumpout Tank No. 1
PT-2	02-1232	Pumpout Tank No. 2
PT-3	02-1233	Pumpout Tank No. 3
PT-4	02-1102	Sludge Reception Tank
PT-5	02-0660	Overflow T2640

IV.C.2.a Air Emission Control Requirements

(1) The tanks in the hazardous waste tank farm must meet the Level 2 tank standards as stipulated under 40 CFR §§ 264.1084(d)(3) and 264.1084(g)(1) through (3), including but not limited to the requirements to inspect and monitor the air emission equipment for the tank and keep records of the inspections. You must comply with the requirements of 40 CFR § 264.1084(j). You must comply with the applicable requirements of 40 CFR §§ 264.1088, 264.1089, and 264.1090 for such tanks.

(2) All tanks must meet the industrial standards established for such tanks by the American Society of Mechanical Engineers (ASME), American Petroleum Institute

(API), or other equivalent standards.

(3) Each vent pipe from a storage tank must be connected to a common vent header, which is connected to the vapor recovery header. The combined vent stream is discharged via a ventilation header blower in the vapor recovery header to the air inlet plenum for the kiln primary combustion air fan and/or an activated carbon adsorption system for emission control.

(4) Vent piping system from the tanks to the vapor recovery header must meet the requirements of a closed-vent system as defined in 40 CFR § 264.1084(d)(3) and as hereinafter specified.

IV.C.2.b Operational Requirements

(1) To prevent overflow of hazardous waste from the 300-gallon overflow tank PT-5 (T2640) to the vent header, the overflow tank must be monitored by a liquid level element and switch (LS-2640). When liquid is detected in the tank, the pumpout pump and the slurry feed pump shall stop and the inlet valves to the pumpout tanks and sludge reception tank shall automatically close.

(2) The temperature, pressure, and liquid level in each storage tank equipped with a mechanical agitator must be monitored through an instrumentation and control system with a high liquid level and a high temperature alarm.

(3) The instrumentation and control system must be maintained as necessary to accurately monitor the tank operational parameters (i.e., temperature, pressure, and level).

(4) The tanks must be provided with a nitrogen blanketing system to reduce organic vapors in the tank head spaces. The nitrogen blanketing system must be properly maintained and be operational to prevent overloading of the control devices. In the event of a system malfunction, you must repair the system as quickly as practicable and maintain the repair record in the facility operating record.

IV.C.3 Process Water Tanks (W-6 through 8)

IV.C.3.a The process water tanks W-6 through W-8 shall be as follows:

W-6: 30,000-gallon Scrubber Water Holding Tank
W-7: 30,000-gallon Scrubber Water Holding Tank
W-8: 6,000-gallon Backwash Settling Tank

IV.C.3.b Tank W-6, W-7 and W-8 must meet the Tank Level 1 standards specified in 40 CFR §§ 264.1084(b) and (c), including but not limited to the inspection requirements and the requirement to keep records of the inspections. You must comply with the requirements of 40 CFR § 264.1084(j) for such tanks. You must

comply with the applicable requirements of 40 CFR §§ 264.1088, 264.1089, and 264.1090 for such tanks.

IV.C.3.c Other process water tanks and filters, not identified above, must not contain hazardous wastes with an average VO concentration of 500 ppmw (parts per million weight) at the point of origination or greater as determined using the procedures specified in 40 CFR § 264.1083(a) and in accordance with 40 CFR § 264.1082(c)(1). You must satisfy the requirements of Condition IV.F, below, for each such tank in which hazardous waste is placed.

IV.C.4 Bulk Feed Tanks (S-1 and S-2)

IV.C.4.a Hazardous solid wastes delivered to the bulk feed tanks must be placed within the storage pits based on design factors such as angle of repose to prevent overflow. Hazardous wastes that are spilled or tracked inside the enclosure must be collected and stored in the pits or managed in accordance with the state-issued permit.

IV.C.4.b No hazardous wastes containing free liquids (as defined in 40 CFR § 260.10) or treated with free liquids may be stored in Tanks S-1 or S-2. The presence of free liquids is determined by the paint filter test (40 CFR § 264.314, SW-846 Method 9095B), a visual examination, or other appropriate means.

IV.C.4.c The tanks must be located inside an enclosure and vented to a control device (the incinerator and/or carbon adsorption system) meeting the requirements of 40 CFR Part 61, Subpart FF - National Emission Standards for Benzene Waste Operations for a facility at which the total annual benzene quantity from the facility waste is equal to or greater than 10 megagrams per year, as specified in 40 CFR § 264.1082(c)(5). The enclosure and control devices must have been installed and commenced operating before November 25, 1996.

IV.C.4.d The enclosure must be designed and operated 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 CFR § 52.741, Appendix B. (40 CFR § 264.1082(c)(5))

IV.C.4.e You must perform the verification procedure for the enclosure as specified in Section 5.0 to "Procedure T - Criteria for and Verification of a Permanent or Temporary Total Enclosure" annually.

IV.C.4.f You must meet the requirements of 40 CFR §§ 264.1088 through 1090 for Tanks S-1 and S-2.

IV.C.5 Laboratory Waste Tank (L-1)

IV.C.5.a The following waste shall not be placed in the 1,000-gallon laboratory tank (Tank L-1): Hazardous waste with an average VO concentration at the point of waste generation equal or greater than 500 ppmw. The average VO concentration shall be determined using the procedures specified in 40 CFR § 264.1083(a).

IV.C.5.b You must review and update, as necessary, this determination at least once every 12 months following the initial determination for the hazardous waste entering this tank.

IV.C.5.c You must meet the requirements of Condition IV.F of this permit.

IV.D CONTAINERS

IV.D.1 Requirements for Level 1 Container Standards

Except as specified in Conditions IV.D.2 and IV.D.4 below, you must manage hazardous waste placed in containers having a design capacity greater than 0.1 m^3 in accordance with the Container Level 1 standards, as stipulated under 40 CFR § 264.1086(c). A level 1 container must be one of the following:

IV.D.1.a meets the applicable U.S. Department of Transportation (DOT) regulations as specified in 40 CFR § 264.1086(f),

IV.D.1.b be equipped with a cover and closure devices with an acceptable tightness and construction materials in accordance with 40 CFR § 264.1086(c)(1)(ii), or

IV.D.1.c be an open-top container with organic vapor suppressing barrier to prevent hazardous waste from being exposed to the atmosphere as specified in 40 CFR § 264.1086(c)(1)(iii).

Containers that do not meet the DOT regulations as specified in 40 CFR § 264.1086(f) must be equipped with covers and enclosure devices suitable for the physical and chemical characteristics of hazardous waste in containers, for maintaining container integrity throughout the life of the container, and for the environments under which the containers are placed in the storage facility. Any chemical used for vapor suppression must not generate heat and/or fume and must be compatible with the hazardous waste in the container. Vapor suppression chemicals must act as an acceptable and stable barrier to the hazardous waste, thus preventing release of VO into the environment. The barrier shall not chemically react to the hazardous waste. (40 CFR § 264.1086(c)(2))

IV.D.1.d All covers and closure devices must be in the closed position whenever hazardous waste is in a container. Opening of a closure device or cover is allowed if it meets the purposes and operates as provided in 40 CFR § 264.1086(c)(3)(i) through (v).

IV.D.1.e You must inspect and repair the containers and their covers and closure devices in accordance with 40 CFR § 264.1086(c)(4).

IV.D.1.f For any container with a capacity of 0.46 m^3 or greater that you are managing under the Level 1 container standards in the Condition IV.D.1 and that does not meet the requirements in Condition IV.D.1.a above, you must maintain at the facility a copy of the procedure that you used to determine that the container is not managing hazardous waste in "light material service," as defined in 40 CFR §§ 264.1081 and 265.1081. (40 CFR § 264.1086(c)(5))

IV.D.2 Requirements for Level 2 Container Standards

IV.D.2.a Containers with a design capacity greater than 0.46 m^3 (122 gallons) and in light material service as defined in 40 CFR § 265.1081 must be managed in accordance with Container Level 2 standards as stipulated under 40 CFR § 264.1086(d). A Level 2 container must be one of the following:

(1) meets the applicable U.S. Department of Transportation (DOT) regulations as specified in 40 CFR § 264.1086(f),

(2) operates with no detectable organic organic emissions as defined in 40 CFR § 265.1081 and determined in accordance with the procedure specified in 40 CFR § 264.1086(g), or

(3) be vapor tight as demonstrated within the preceding 12 months by using 40 CFR Part 60, Appendix A, Method 27 in accordance with the procedures specified in 40 CFR § 264.1086(h). (40 CFR § 1086(d)(1)(iii))

IV.D.2.b Transfer of hazardous waste in or out of a container must be conducted using an engineered method generally accepted and practiced by the industry, or its equivalent method to minimize the release of organics into the atmosphere. (40 CFR § 264.1086(d)(2))

IV.D.2.c All covers and closure devices must be in closed position whenever hazardous waste is in a container. Opening of a closure device or cover is allowed if it meets the purposes and operates as provided in 40 CFR § 264.1086(d)(3)(i) through (v).

IV.D.2.d You must inspect and repair the containers and their covers and closure devices in accordance with 40 CFR § 1086(d)(4).

IV.D.3 You must meet the applicable requirements of 40 CFR §§ 264.1088 through 264.1090 for containers described in Conditions IV.D.1 and IV.D.2.

IV.D.4 You are not authorized to treat any hazardous waste in any container whose design capacity is greater than 0.1 m^3 by waste stabilization process.

IV.E CLOSED-VENT SYSTEM AND CONTROL DEVICES

IV.E.1 Closed-vent System

IV.E.1.a The closed-vent system used to satisfy the requirements of this permit shall meet all the requirements of 40 CFR Part 264, Subpart CC that are applicable to closed-vent system, including but not limited to 40 CFR § 264.1087(b), and shall consist of: (1) a ventilation header blower, (2) vent piping from the hazardous waste storage tanks and the vapor recovery ductwork, (3) secondary vent blowers for the carbon adsorption systems, and (4) instrumentation and monitoring system.

IV.E.1.b The ventilation header blower shall have a minimum capacity of 34,500 cubic feet per minute (CFM) at 9"static pressure.

IV.E.1.c Each secondary vent blower shall have a minimum capacity of 9,775 CFM at 22" static pressure.

IV.E.1.d The closed-vent ductwork must be fabricated in accordance with the standards of SMACNA (Sheet Metal and Air Conditioning Contractors' National Association, Inc.), American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), or equivalent. Flexible hoses/connectors of adequate strength are allowed for making connection to equipment.

IV.E.1.e For a closed-vent operating at a negative pressure (i.e., suction ductwork of the ventilation header blower), a pressure measurement device must be installed in each closed-vent ductwork at an accessible location to verify that a negative pressure is being maintained when the control device is operating.

IV.E.1.f For a closed-vent operating under positive pressure (i.e., discharge ductwork of the ventilation header blower, including the ductwork between the carbon adsorption system to the stack), the closed-vent system shall operate with no detectable emissions, as indicated by an instrument reading of less than 500 ppmv above background as determined by the procedure in 40 CFR § 264.1034(b), and by visual inspections.

IV.E.1.g The combustible concentrations in the vent streams must be maintained at less than 60 % of the Lower Explosion Limit (LEL) of the vent stream to prevent fire and/or explosion.

IV.E.1.h You must monitor and inspect each closed-vent system in accordance with 40 CFR § 264.1033(l).

IV.E.1.i You must prepare and maintain records for the closed-vent system as specified in 40 CFR § 264.1089 and shall make reports as specified in 40 CFR § 264.1090.

IV.E.1.j You must operate the closed-vent system in accordance with 40 CFR § 264.1087(c)(2)(vi).

IV.E.2 Operations of Ventilation Header Blower and Secondary Vent Blowers

IV.E.2.a The ventilation header blower shall deliver the vent streams from each emission point to the carbon adsorption systems and/or the rotary kiln primary combustion air fan inlet plenum.

IV.E.2.b Flow control valves, pressure indicating controllers, temperature elements and alarms, vent stream analyzer must be incorporated into the operations of the blowers.

IV.E.2.c Electrical interlockings must be provided to prevent potential fire and/or explosion due to high temperature and/or VO concentrations within the closed-vent system.

IV.E.3 Control Devices

IV.E.3.a The control devices used to meet the requirements of this permit shall include: (1) a carbon adsorption system (Modules A & B), and (2) the rotary kiln combustion system. The rotary kiln combustion system shall comply with the requirements of 40 CFR § 264.1087(c), as applicable to enclosed combustion devices.

IV.E.3.b The carbon adsorption system shall consist of 2 modules (Module A and B). Each module shall have 2 carbon boxes connected in series. Each carbon box shall have a face area of 186 square feet and be designed for a maximum flow of 12,500 CFM.

IV.E.3.c Each carbon box shall contain approximately 12,500 pounds of fresh granular activated carbon or 425 cubic feet in volume. Each carbon box shall be designed and operated to reduce by at least 95 % by weight the total volatile organic concentration of the inlet vent stream to the carbon adsorption system. Each carbon adsorption module must meet the requirements of 40 CFR § 264.1087(c), as applicable to carbon adsorption systems.

IV.E.3.d Design of the carbon box shall be epoxy coated steel and gas-tight construction, or equivalent, capable of withstanding an air pressure of 22" water column. All flexible connections for the carbon boxes must be designed and operated under air-tight condition based on the maximum working pressure of the vent streams inside the carbon box.

IV.E.3.e The activated carbon box used in the carbon adsorption systems shall have a minimum temperature rating of 150 ^{0}F. The minimum pressure rating for the carbon box shall be 0.5 psig without causing structural damages.

IV.E.3.f Each carbon adsorption system must be monitored on a continuous basis by use of a continuous emission monitor system, as specified in Paragraph 17 through 19 of the Consent Decree between U.S. EPA and Von Roll America in U.S. v. Von Roll America, Inc., No. 4:06CV2893 (N.D. Ohio), effective February 2, 2007 ("Consent Decree"); which paragraphs are incorporated herein by reference. The existing carbon must be replaced with fresh carbon immediately when carbon breakthrough is indicated, as specified in Paragraphs 21 through 22 of the Consent Decree; which paragraphs are incorporated herein by reference. Carbon breakthrough is indicated as described in Paragraph 18 and 22 of the Consent Decree and is summarized as follows:

(1) 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.

(2) 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 Paragraphs 5.1.1 and 5.1.2 of the Routine Maintenance Procedure attached to the Consent Decree; which parargraphs are incorporated herein by reference. 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 the actions specified in Paragraph 22 of the Consent Decree, as incorporated herein by Reference.

IV.E.3.g For each Module, a flow meter/transmitter at the inlet ductwork to the carbon adsorption box and an inter-box Continuous Emission Monitors for total hydrocarbons must be used to continuously monitor and record the flow rate and the THC concentration.

IV.E.3.h The performance specifications for the THC Continuous Emission Monitoring system shall be as stipulated in 40 CFR Part 266, Appendix IX.

IV.E.3.i You must maintain a copy of the activated carbon specifications in the operating file. When you decide to change the supplier of the carbon, the new carbon's physical and chemical characteristics must be comparable or equal to the current activated carbon which has been tested.

IV.E.3.j All spent carbons must be handled, disposed of, or regenerated as hazardous waste.

IV.E.3.k Recordkeeping of the control devices shall be in accordance with 40 CFR § 264.1089.

IV.E.4 Disposal of Spent Carbons

IV.E.4.a On-Site Disposal

(1) The Permittee may dispose of the spent carbon removed from the carbon box modules by transferring the carbon box and dumping the spent carbon into the solid waste feed tank(s) S-1 or S-2. The bulk feed tanks must meet the requirements of National Fire Protection Association (NFPA) Codes.

(2) If a vacuum truck is utilized, the exhaust from the vacuum blower shall be treated by a mechanical cyclone with a dust filter, or an equivalent device, having a total dust removal efficiency of 85 % based on ASTM, National Bureau Standards Atmospheric Dust Test Method, ASHRAE Method, or an approved method.

(3) The area utilized for mechanical removal of spent carbon shall be so designated and designed to prevent run off from the spills of spent carbon. The Permittee may propose an alternative method equivalent to those described above.

(4) The Permittee may propose an alternative method equivalent to those described above, subject to the approval of U.S. EPA.

IV.E.4.b Off-Site Regeneration/Disposal of Spent Carbons

The Permittee may dispose of or regenerate the spent carbons off-site as hazardous waste in accordance with the provisions of 40 CFR § 264.1033(n) and all federal and state regulations relating to transportation, regeneration, or disposal of hazardous waste.

IV.E.4.c The Permittee shall document that all carbon removed from the carbon adsorption system is managed in accordance with either Condition IV.E.4.a or IV.E.4.b above. The Permittee shall retain such documentation in the facility operating record for a minimum of 3 years.

IV.E.5 Compliance with the Consent Decree

The Permittee must comply with the terms and conditions stipulated in the final Consent Decree between the United States and Von Roll America, Inc. in U.S. v. Von Roll America, Inc., No. 4:06CV2893 (N.D. Ohio), which became effective on February 2, 2007.

IV.F TANKS AND CONTAINERS EXEMPT UNDER 40 CFR § 264.1082(c)(2) FROM THE STANDARDS IN 40 CFR §§ 264.1084 THROUGH 264.1087

IV.F.1 Under this permit, for each container or tank you claim to be exempt under 40 CFR § 264.1082(c)(1), you must demonstrate by direct measurement or approved method that the average VO concentration for all hazardous waste entering the container or tank has an average VO concentration, as determined in accordance with 40 CFR §§ 264.1083(a) and 265.1084(a)(2) through (a)(4), is less than 500 ppmw at the point of origination.

IV.F.2 For each such tank or container, you must review and update the determination in Condition IV.F.1 in accordance with 40 CFR § 264.1082(c)(1) at least once every 12 months following the date of the initial determination.

IV.F.3 For each such tank or container, you are subject to the requirements of 40 CFR § 264.1082(d) and you must satisfy the applicable requirements of 40 CFR §§ 264.1088 through 264.1090.

IV.G INSPECTION, RECORDKEEPING AND REPORTING REQUIREMENTS

The Permittee shall comply with all applicable inspection, recordkeeping and reporting requirements described in 40 CFR §§ 264.1088, 264.1089 and 264.1090.

SECTION V -- AIR EMISSION STANDARDS FOR MISCELLANEOUS UNITS UNDER 40 CFR PART 264, SUBPART X

V.A GENERAL

The following Subpart X units are permitted under the State of Ohio Environmental Protection Agency's permit. These units, if installed and operated, are regulated under 40 CFR Part 264, Subparts X, BB, and CC.

V.A.1 Drum Extruder (2 units)
V.A.2 Pusher (1 unit)
V.A.3 Filter Presses (2 units)
V.A.4 Shredders (4 units)

You must not place hazardous waste in any unit described in Conditions V.A.1 through V.A.4 other than the Drum Extruder Pulper Unit described in Condition V.B below unless you first request and receive a modification to this permit to incorporate the requirements of 40 CFR Part 264, Subparts BB and CC that are appropriate for such unit, as required by 40 CFR § 264.601.

V.B Drum Extruder Pulper Unit

V.B.1 The drum extruder pulper unit consists of (1) a loading chamber, (2) a process chamber for extrusion and crushing of drums, (3) a crushed drum discharging chute with double airlocks, and (4) a waste pulping tank with a mechanical pulper. All components shall be designed and operated as a unit.

V.B.2 The process chamber (extruder/crusher) unit shall be operated under negative pressure and vented through a closed-vent system that meets the requirements of Conditions IV.E.1 and IV.E.2 of this permit to a control devices that meet the requirements of Conditions IV.E.3 through IV.E.5 of this permit.

V.B.3 The drum to be processed shall enter the seal chamber and move to the processing chamber after the seal chamber door is positively closed. The crushed drums shall be discharged through a discharging chute equipped with double airlocks (i.e., knife gate valves).

V.B.4 The processing chamber and the pulping tank shall be provided with nitrogen to reduce the organic concentrations in the chamber below 60 % of the Low Explosion Limit (LEL) based on the average combustible constituents in the chamber. Oxygen sensors, or equivalent monitoring equipment must be operated and maintained.

V.B.5 Temperature and liquid level in the pulping tank must be continuously monitored. When high liquid level is detected in the blending tank, operations of the extruder/ crusher unit shall stop.

V.B.6 You must operate the drum extruder pulper unit in accordance with the manufacturer's operating instructions.

V.B.7 You must inspect and monitor the extruder pulper unit in accordance with 40 CFR §§ 264.602 and 264.1088.

V.B.8 Recordkeeping of the extruder pulper unit shall be in accordance with 40 CFR § 264.1089.