U.S. Environmental Protection Agency
Resource Conservation & Recovery Act Draft Permit
EPA RCRA I.D. Number: AZD982441263

BENEFICIAL LANDOWNER:	COLORADO RIVER INDIAN TRIBES	OPERATOR:	EVOQUA WATER TECHNOLOGIES, LLC
	26600 Mohave Road Parker, Arizona 85344		2523 Mutahar Street Parker, Arizona 85344

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, 42 USC Sections 6901 *et seq.*, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616 (collectively, hereafter, "RCRA"), and regulations promulgated thereunder by the U.S. Environmental Protection Agency (EPA) (codified and to be codified in Title 40 of the Code of Federal Regulations), this Permit is issued to Evoqua Water Technologies, LLC and the Colorado River Indian Tribes (collectively, hereafter, the "Permittees"), for the facility located at 2523 Mutahar Street, Parker, Arizona 85344 with the EPA RCRA ID # AZD982441263.

This Permit, with all its attachments, constitutes the full RCRA Permit for this Facility. The Permittees, pursuant to this Permit, are required to investigate any releases of hazardous waste or hazardous constituents at the Facility, regardless of the time at which waste was placed in a unit. The Permittees are required to take appropriate corrective action for any such releases.

The Permittees must comply with all the terms and conditions of this Permit. This Permit consists of the conditions contained herein (including those in any appendices) and the applicable regulations contained in 40 CFR Parts 61, 63, 124, and 260 through 270, as specified in this Permit, and the statutory requirements of RCRA. Nothing in this Permit shall preclude the Regional Administrator from reviewing and modifying the Permit at any time during its term in accordance with 40 CFR § 270.41.

This Permit is based on the premise that information and reports submitted by the Permittees prior to issuance of this Permit are complete and accurate, unless otherwise indicated in this Permit. Any inaccuracies found in this information or information submitted as required by this Permit may be grounds for termination or modification of this Permit in accordance with 40 CFR §§ 270.41, 270.42, or 270.43 and/or potential enforcement. The Permittees must inform the EPA of any deviation from or changes in the information in the application which would affect the Permittees' ability to comply with the applicable regulations or Permit conditions.

This Permit is effective _____, and shall remain in effect for ten (10) years until _____, unless revoked and reissued, or terminated under 40 CFR §§ 270.41 and/or 270.43 or continued in accordance with 40 CFR § 270.51(a). All obligations for performance of the conditions of this Permit are in effect until deemed complete by the Director of the Land Division for the U.S. Environmental Protection Agency, Region 9 (the "Director").

If any conditions of this Permit are appealed in accordance with 40 CFR § 124.19, the effective date of the conditions determined to be stayed in accordance with 40 CFR § 124.16 shall be determined by final agency action as specified under 40 CFR § 124.19.

9/27/2016
Date Issued

/SIGNED/
Jeff Scott
Director
Land Division

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PERMIT ATTACHMENT APPENDICES:

This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC

MODULE I - GENERAL PERMIT CONDITIONS

I. INTRODUCTION

This document, consisting of Modules I through VI and the Permit Attachments, Permit Exhibits, and any other documents incorporated herein, constitutes a hazardous waste permit under Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, (RCRA), and the applicable regulations at Title 40 of the Code of Federal Regulations (40 CFR) Parts 260 through 270 for hazardous waste storage and treatment at a carbon regeneration facility (EPA ID Number - AZD982441263) (Permit) located on the Colorado River Indian Tribes (CRIT) Reservation near Parker, Arizona. At the Evoqua Water Technologies LLC Facility (defined below), spent carbon is treated in a regeneration furnace to purify it and make it suitable as a commercial product. [See 40 CFR §§ 264.10 and 264.11.]

I.A. EFFECT OF PERMIT

I.A.1. The Permittees Evoqua Water Technologies LLC and CRIT are allowed to store and treat hazardous waste in accordance with the conditions of this Permit. Any storage or treatment of hazardous waste at the Facility not authorized in this Permit is prohibited. Pursuant to 40 CFR §270.4, compliance with this Permit generally constitutes compliance, for purposes of enforcement with RCRA, with some exceptions (42 U.S.C. §§6901 et seq.). [See also Permit Conditions II.A.2. and II.A.5. and 40 CFR Part 262, §§270.1(c), and 270.4.]

I.A.2. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege. [See 40 CFR §§270.4(b) and 270.30(g).]

I.A.3. Issuance of this Permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of Tribal, state or local law or regulations. [See 40 CFR §270.4(c).]

I.A.4. Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(h), 3013, or

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7003 of RCRA, Sections 104, 106(a) or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 U.S.C. §§9601 et seq.), or any other law providing for protection of public health or the environment. In addition, compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), solely with respect to those requirements set forth at 40 CFR § 270.4(a)(1)(i)-(iv).

I.A.5. This Permit supersedes any and all requirements included in the attachments, sections, and appendices of the permit application. However, to the extent that any attachments, sections or appendices of the permit application are incorporated into and made a part of this Permit, and to the extent that any such attachments, sections or appendices contradict or conflict with the requirements of the Permit set forth in Modules I through VI, inclusive, the conditions set forth in Modules I through VI shall control. In addition, references to RCRA's interim status requirements (40 CFR Part 265) contained in such attachments, sections or appendices are superseded by the standards applicable to RCRA permitted facilities (40 CFR Part 264), as appropriate, upon the effective date of this Permit.

I.A.6. Unless set forth specifically otherwise herein, requirements of this Permit apply to both the tribal trust landowner and the operator of the Facility, who are referred to herein collectively as the "Permittees." However, compliance with such requirements of this Permit by either the Tribe, as beneficial landowner, or the operator is regarded as sufficient for both. [See 45 Federal Register (FR) 33295/col. 3, (May 19, 1980).]

I.A.7. Where citations to regulatory authority are included at the end of a permit condition -- for example "[See 40 CFR §264.XXX.]" -- such references are solely to assist those reading the Permit with identifying the source of the requirement to which the citation applies. Such citations do not, in and of themselves, incorporate the regulatory requirement into the permit condition. However, where regulations are referenced in the body of a permit condition – for example "Pursuant to 40 CFR § 264.XXX" or "In accordance with 40 CFR § 264.XXX," the requirements of the regulation so cited are incorporated into the permit condition.

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I.A.8. For the purposes of this Permit, any reference to a regulatory requirement (including any interim final regulation) shall refer to the version of such regulatory requirement which is in effect at the time of issuance of the permit. With some exceptions as set forth in 40 CFR § 270.4(a)(1), where regulatory authorities affecting conditions of this Permit are issued, revised or amended after the issuance of this Permit, such new, revised or amended provisions shall only be applicable to the operations of the Facility after a permit modification incorporates such requirements or after a renewal of the Permit, incorporating or referencing such new, revised or amended regulations, is issued. [See 40 CFR 270.32(c) and 40 CFR § 270.4(a)(1).]

I.B. PERMIT ACTIONS

I.B.1. This Permit may be modified, revoked and reissued, or terminated for cause, in accordance with 40 CFR §§ 270.41, 270.42, and 270.43. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittees, does not stay the applicability or enforceability of any permit condition. [See 40 CFR §§ 270.4(a)(2), 270.30(f), 270.41, 270.42, and 270.43.]

I.B.2. This Permit may be renewed in accordance with 40 CFR § 270.30(b) and Permit Condition I.E.2. Review of any application for a Permit renewal shall consider improvements in the state of control and measurement technology, as well as changes in applicable regulations. [See 40 CFR § 270.30(b), RCRA Section 3005(c)(3).]

I.C. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby. [See 40 CFR §124.16.]

I.D. DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as

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those in 40 CFR Parts 61, 63, 124, 260, 264, 266, 268, and 270, as appropriate, unless this Permit specifically provides otherwise. Where terms are not defined in the regulations or this Permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

AOC means Area of Concern.

CEMS means continuous emissions monitoring system.

CERCLA means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, (42 U.S.C. §§9601 et seq.,) as amended.

CFR means Code of Federal Regulations, latest edition.

CMS means continuous monitoring system.

CRIT or Tribe means the beneficial landowner of the land on which the Facility is located, the Colorado River Indian Tribes.

Day or days means a calendar day or days, even if the word "calendar" is absent, unless otherwise specified.

Director means the Director of the EPA Region 9 Land Division, or his or her designee or authorized representative.

Enforcement Director means the Director of the EPA Region 9 Enforcement Division, or his or her designee or authorized representative.

EPA means the United States Environmental Protection Agency.

Facility means the carbon regeneration facility located at 2523 Mutahar Street, Parker, Arizona, 85344, on land of the Colorado River Indian Tribes and all contiguous land, and structures, other appurtenances, and improvements on the land, used for treating or storing, of spent carbon as allowed by this Permit.

Facility mailing list means the most recent version of the interested parties mailing

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list provided by the EPA Region 9 Land Division to the Permittee(s).

HWMU means Hazardous Waste Management Unit.

Method 21 means Method 21 from Appendix A-7 of 40 CFR Part 60.

PDT means Performance Demonstration Test.

Permit Attachment(s), Permit Attachment Section(s) and Permit Attachment Appendix or Appendices mean the attachments, sections and appendices to this Permit, which were transmitted to EPA by the Permittees in their Part B Permit Application dated April 2016.

Permittee, Permittees or Permit Applicants means either Evoqua Water Technologies, LLC, the operator of the Facility, or the Colorado River Indian Tribes, the beneficial landowner of the tribal land on which the Facility is located, or both.

Product means the carbon that has been thermally treated and regenerated at the Facility.

RCRA means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 and the Hazardous and Solid Waste Amendments of 1984, as amended, 42 U.S.C. §§ 6901 et seq.

Site means the land where the Facility is physically located down to and including the groundwater zone.

SWMU means Solid Waste Management Unit.

I.E. DUTIES AND REQUIREMENTS

I.E.1. Duty to Comply

The Permittees shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any Permit noncompliance, other than noncompliance

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authorized by an emergency permit, constitutes a violation of RCRA and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [See 40 CFR §270.30(a).]

I.E.2. Duty to Reapply

If the Permittees wish to continue an activity allowed by this Permit after the expiration date of this Permit, the Permittees shall submit a complete application for a new permit at least 180 days prior to the Permit's expiration. [See 40 CFR §§270.10(h) and 270.30(b).]

I.E.3. Permit Expiration

This Permit shall be effective for a fixed term not to exceed ten years. This Permit and all conditions herein will remain in effect and enforceable beyond the Permit's expiration date, if the Permittees have submitted a timely, complete application and, through no fault of the Permittees, the Director has not issued a new permit. [See 40 CFR §§270.10, 270.13, 270.14, 270.50, and 270.51.]

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

It shall not be a defense for the Permittees in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit. [See 40 CFR §270.30(c).]

I.E.5. Duty to Mitigate

In the event of noncompliance with this Permit, the Permittees shall take all reasonable steps to minimize releases to the environment and shall carry out such measures, as are reasonable, to prevent significant adverse impacts on human health or the environment. [See 40 CFR §270.30(d).]

I.E.6. Proper Operation and Maintenance

The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the Permittees to achieve compliance with the conditions of 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 the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit. [See 40 CFR §270.30(e).]

I.E.7. Duty to Provide Information

The Permittees shall furnish to the Director or the Enforcement Director, as appropriate, within a reasonable time, any relevant information which the Director or the Enforcement Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittees shall also furnish to the Director or the Enforcement Director, as appropriate, upon request, copies of records required to be kept by this Permit. [See 40 CFR §270.30(h).]

I.E.8. Inspection and Entry

The Permittees shall allow the Director or the Enforcement Director, as appropriate, or an authorized representative, upon presenting credentials and other documents, as may be required by law, to:

I.E.8.a. Enter during business hours or at a reasonable time upon the Facility and/or either Permittees' 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 must be kept under the conditions of this Permit;

I.E.8.c. Inspect at reasonable times any 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, for the purposes of assuring Permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location at the Facility. [See 40 CFR §270.30(i).]

I.E.9. Monitoring and Records

I.E.9.a. Samples and measurements taken by the Permittees for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste must be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved by the Director. Laboratory analytic methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846, Standard Methods of Wastewater Analysis, or an equivalent method, as specified in the Waste Analysis Plan (See Permit Condition II.C, Permit Attachment Section C and Permit Attachment Appendix IV). [See 40 CFR §270.30(j)(1).]

I.E.9.b. The Permittees shall retain records of all monitoring information (including all calibration and maintenance records and all digital and original strip chart recordings for continuous monitoring instrumentation), copies of all reports and records required by this Permit, the certification required by 40 CFR § 264.73(b)(9) and Permit Condition II.A.6., 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 sample, measurement, report, record, certification, or application. These periods may be extended by request of the Director at any time and are automatically extended during the course of any unresolved enforcement action

regarding this Facility. The Permittees shall maintain records for all ground-water monitoring wells and associated ground-water surface elevations for the active life of the Facility. This provision does not apply to any records required to be maintained in accordance with Permit Condition V.G, which shall instead be subject to that requirement. [See 40 CFR §§ 264.73(b)(9), 264.74(b) and 270.30(j)(2). See also Permit Condition V.G.]

I.E.9.c. Records of monitoring information shall specify:

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

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

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

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

I.E.9.c.v. The analytical technique(s) or method(s) used; and

I.E.9.c.vi. The results of such analyses. [See 40 CFR §270.30(j)(3).]

I.E.10. Reporting Planned Changes

The Permittees shall give notice to the Director, as soon as possible, of any planned physical alterations or additions to the Facility. If any planned "changes" (as defined at 40 CFR § 63.1206(b)(5)(iii)), to the design, operation, or maintenance practices of the source may adversely affect compliance with any emission standard that is not monitored with a CEMS, the Permittees shall follow the procedures set forth at 40 CFR § 63.1206(b)(5)(i) for notification, performance testing and restrictions on

waste burning, or otherwise shall comply with the requirements of 40 CFR § 63.1206(b)(5)(ii). Any notice provided under this section shall include any necessary request for a permit modification pursuant to Permit Condition I.G.7. and 40 CFR § 270.42. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j), 63.1210(d), 270.30(l)(1) and 270.42.]

I.E.11. Reporting Anticipated Noncompliance

The Permittees shall give advance notice to the Director of any planned changes in the Facility or activity which may result in noncompliance with Permit requirements. [See 40 CFR §270.30(l)(2).]

I.E.12. Transfer of Permits

This Permit is not transferable to any person, except after notice to the Director. The Director may require modification or revocation and reissuance of the Permit to change the name of a Permittee and incorporate such other requirements as may be necessary in accordance with 40 CFR §270.40. Before transferring ownership or operation of the Facility, the Permittees shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270 and this Permit. [See 40 CFR §§264.12(c), 270.30(l)(3) and 270.40.]

I.E.13. Twenty-Four Hour Reporting

I.E.13.a. The Permittees shall report to the Director any noncompliance which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time whichever Permittee first becomes aware of the circumstances. The report shall include the following:

I.E.13.a.i. Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies; and

I.E.13.a.ii. Any information of a release or discharge of hazardous waste, or of a fire or explosion from the Facility which could threaten the environment or human health inside or outside the Facility. [See 40 CFR §270.30(l)(6)(i).];

I.E.13.b. The description of the noncompliance and its cause shall include:

I.E.13.b.i. Names, addresses, and telephone numbers of the Permittees;

I.E.13.b.ii. Name, address, and telephone number of the Facility;

I.E.13.b.iii. Date, time, and type of incident;

I.E.13.b.iv. Name and quantity of materials involved;

I.E.13.b.v. The extent of injuries, if any;

I.E.13.b.vi. An assessment of actual or potential hazards to the environment and/or human health outside the Facility, where this is applicable; and

I.E.13.b.vii. Estimated quantity and disposition of recovered material that resulted from the incident. [See 40 CFR §270.30(l)(6)(ii).]

I.E.13.c. A written submission shall also be provided within five days of the time that whichever Permittee first becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected, and, if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Director may waive the five-day written notice requirement in favor of a written report within 15 days. [See 40 CFR §270.30(l)(6)(iii).]

I.E.14. Compliance Schedule Reporting

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 14 days following each schedule date. [See 40 CFR §270.30(l)(5).]

I.E.15. Other Noncompliance

The Permittees shall report all other instances of noncompliance not otherwise required to be reported in Permit Conditions I.E.10 through I.E.14, at the time monitoring reports are submitted. The reports of noncompliance shall contain the information listed in Permit Condition I.E.13. [See 40 CFR §270.30(l)(10).]

I.E.16. Other Information

Whenever either Permittee becomes aware that either Permittee failed to submit any relevant facts, or submitted incorrect information, in a Permit application or in any report to the Director, the Permittees shall promptly submit such facts or information. [See 40 CFR § 270.30(l)(11).]

I.F. SIGNATORY REQUIREMENT

All applications, reports, or information submitted to or requested by the Director, the Enforcement Director, or a designee or authorized representative of the Director or the Enforcement Director, shall be signed and certified in accordance with 40 CFR §§ 270.11 and 270.30(k). [See 40 CFR §§ 270.11 and 270.30(k).]

I.G. REPORTS, NOTIFICATIONS, AND DELIVERABLES

I.G.1. All reports, correspondence, notices or other deliverables required by this Permit, or required to be submitted to EPA or the Regional Administrator under regulatory provisions cited in this Permit, shall be delivered by U.S. Postal Service or private courier service to:

Director, Land Division
US Environmental Protection Agency, Region IX
75 Hawthorne St. (LND-1)
San Francisco, CA 94105

I.G.2. All deliverables submitted pursuant to this Permit shall be printed on recycled paper and shall be copied double-sided, whenever practicable. Additionally, all deliverables submitted pursuant to this Permit shall also be submitted in electronic format (*e.g.*,

CD ROM, flash drive). Permittees may submit such deliverables by electronic mail where the Permittees and the Director have agreed in writing as to the appropriate email address for such electronic mail submissions.

I.G.3. For the computation of time periods set forth in this Permit, the Permittees shall conduct the following:

I.G.3.a. Any time period scheduled to begin on the occurrence of an act or event shall begin on the day after the act or event.

I.G.3.b. Any time period scheduled to begin before the occurrence of an act or event shall be computed so that the period ends on the day before the act or event.

I.G.3.c. If the final day of any time period falls on a weekend or legal holiday, the time period shall be extended to the next working day. [See, *e.g.*, 40 CFR § 124.20.]

I.G.4. Where this permit references or incorporates any standard from 40 CFR Part 63 for which a notice or notification is required to be submitted to EPA, including any notice or notification required under 40 CFR §§ 63.1206(b)(5), 63.1207(j) or 63.1210, the Permittees shall submit such notice or notification with reference to the specific provision of this Permit requiring the notice or notification. [See 40 CFR §§ 63.1206(b)(5), 63.1207(j) and 63.1210.]

I.G.5. <u>Deliverables Submitted for the Director's Review and Approval</u>

I.G.5.a. Deliverables that are explicitly required by this Permit to be submitted to the Director for review and approval must be post-marked by the due date specified in this Permit or by the specific schedules developed pursuant to the requirements of this Permit that apply to such deliverables. The Director shall review and respond to the deliverable in accordance with Permit Condition I.G.5.b.

I.G.5.b. Subject to the provisions of I.G.5.c., after review of any deliverable that is required to be approved by the Director pursuant to this Permit, the Director will either:

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(i) approve, in whole or in part, the submission;
(ii) approve the submission on specified conditions;
(iii) modify the submission to cure the deficiencies;
(iv) disapprove, in whole or in part, the submission, directing that Permittee modify the submission; or
(v) any combination of the above.

I.G.5.c. The Director will not modify a deliverable under Permit Condition I.G.5.b. without first providing the Permittees at least one notice of deficiency and an opportunity to cure within ten (10) days, except:

(i) where the Director determines that to do so would cause serious disruption to the work required by this Permit or could present an unacceptable risk to human health or the environment; or

(ii) where the Director has disapproved previous submission(s) due to material defects and the Director determines that the deficiencies in the submission under consideration indicate a bad faith lack of effort to submit an acceptable deliverable.

I.G.5.d. Upon approval of any deliverable pursuant to this Permit, including approval on conditions or modification by the Director, the Permittees shall maintain a copy of the approved deliverable in the Operating Record and proceed to take any action required by and in accordance with the approved deliverable.

I.G.5.e. Resubmission of Deliverable: Upon receipt of a notice of disapproval, in whole or in part, pursuant to this Permit Condition I.G.5., the Permittees shall, within twenty-one (21) days or such longer time as specified by the Director in such notice, correct the deficiencies and resubmit the deliverable for approval.

I.G.5.f. Notwithstanding the receipt of a notice of disapproval pursuant to this Permit Condition I.G.5., the Permittees shall proceed, at the direction of the Director, to take any action required by any non-deficient portion of the submission. Implementation of any non-deficient portion of a submission shall not relieve the Permittees of the obligation to address any deficient portion of the submission.

I.G.5.g. In the event that a resubmitted deliverable, or portion thereof, is disapproved by the Director, the Director may again require the Permittees to correct the deficiencies, in accordance with this Permit Condition I.G.5.

I.G.5.h. If upon resubmission, a deliverable is disapproved or modified by the Director due to a material defect, the Permittees shall be deemed to have failed to submit such deliverable in a timely or adequate manner.

I.G.5.i. The disapproval or modification of a deliverable by the Director pursuant to this Permit Condition I.G.5. is subject to the informal dispute resolution procedures set forth in Permit Condition I.L.

I.G.6. Modifications to Previously Approved Deliverables

I.G.6.a. If at any time during the life of this Permit, the Permittees identify a need for a modification of any previously approved deliverable required by this Permit or of any deadline required by this Permit, the Permittees shall submit a memorandum documenting the need for the modification to the Director. Where appropriate, such memorandum shall be accompanied by a request for a Permit Modification pursuant to 40 CFR § 270.42. [See 40 CFR § 270.42.]

I.G.6.b. Where a Permit Modification is not requested by the Permittees, the Director will determine if the requested modification to the previously approved deliverable or to the deadline is warranted as soon as practicable after receipt of any memorandum submitted pursuant to Permit Condition I.G.6.a. and so inform the Permittees in writing that the proposed modification to the deliverable or deadline has been approved, modified or disapproved as provided in Permit Condition I.G.5.b. and subject to Permit Condition I.G.5.c. Where the memorandum is accompanied by a request for a Permit Modification under 40 CFR § 270.42, RCRA's permit modification procedures shall apply. [See 40 CFR § 270.42.]

I.G.6.c. Requests for extensions of the due dates for deliverables may be granted by the Director in accordance with either the procedures in Permit Condition I.G.6.a. of this Permit or RCRA's permit modification processes. [See 40 CFR § 270.42.]

I.G.7. Deliverables that Require a Permit Modification

I.G.7.a. Deliverables that are explicitly required by this Permit to be submitted with an accompanying request for a permit modification in accordance with this Permit Condition I.G.7., must specify the class of permit modification for which the request is being submitted in accordance with 40 CFR § 270.42 and Appendix 1 to that section. Or, if the request is for a permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, the Permittees may submit a Class 3 modification request to the Director, or may request a determination by the Director that the modification should be reviewed and approved as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification. [See 40 CFR § 270.42 and Appendix 1 to 40 CFR § 270.42.]

I.G.7.b. For any permit modification not explicitly identified in Appendix 1 to 40 CFR § 270.42, if the Permittees request that the modification be classified as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification, the request must include the necessary information to support the requested classification in accordance with 40 CFR §270.42. [See 40 CFR § 270.42(d).]

I.G.7.c. The Director's determination that the modification should or should not be treated as a Class 1 with no prior Director approval, Class 1 with prior Director approval, or Class 2 modification shall be subject to the Informal Dispute Resolution provisions of Permit Condition I.L., but any other decisions made by the Director as part of the permit modification process shall only be reviewable in accordance with 40 CFR Part 124. [See 40 CFR Part 124.]

I.G.8. Deliverables That May Trigger a Permit Modification

Where a report or other deliverable required by this Permit includes a recommendation that the Permit be modified, and the report or other deliverable is subject to approval by the Director under Permit Condition I.G.5., the request for the permit modification should only be submitted after the report or other deliverable recommending the modification has been approved by the Director.

I.H. CONFIDENTIAL INFORMATION

In accordance with 40 CFR §270.12, either Permittee may claim any information required to be submitted by this Permit as confidential. If no claim is made at the time of submission, the information may be made available to the public without further notice. [See 40 CFR Part 2, Subpart B, and § 270.12.]

I.I. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

I.I.1. The Permittees shall 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 these documents:

1. Waste Analysis Plan, as required by 40 CFR §264.13 and this Permit;
2. Inspection schedules, as required by 40 CFR §264.15(b)(2) and this Permit;
3. Personnel training documents and records, as required by 40 CFR §264.16(d) and this Permit;
4. Contingency Plan, as required by 40 CFR §264.53(a) and this Permit;
5. Operating record, as required by 40 CFR §264.73 and this Permit;
6. Closure Plan, as required by 40 CFR §264.112(a) and this Permit;
7. Annually-adjusted cost estimates for Facility closure, as required by 40 CFR §264.142(d) and this Permit;
8. The Startup Shutdown and Malfunction Plan (SSMP), as required by this Permit;
9. The Subpart FF Compliance Plan; and
10. All other documents required to be maintained for the life of the Facility in accordance with the requirements of this Permit.

I.I.2. All records, including plans, required under this Permit must be furnished upon request, and made available at all reasonable times for inspection by any officer, employee, or representative of EPA who is duly designated by the Director. [See 40 CFR § 264.74(a).]

I.J. INFORMATION REPOSITORY

I.J.1. The Permittees must establish and maintain an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit

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This draft permit has been created in accordance with 40 CFR § 124.6 as part of US EPA's proposed RCRA hazardous waste permit decision for the hazardous waste facility (EPA ID # AZD982441263) located on trust land of the Colorado River Indian Tribes at 2523 Mutahar Street, Parker, Arizona, 85344, and operated by Evoqua Water Technologies LLC.

I. [See 40 CFR §§124.33 and 270.30(m).]

I.J.2. The Permittees must update the information repository with appropriate information at least every five (5) years throughout the life of this Permit. [See 40 CFR §§ 124.33(f) and 270.30(m).]

I.J.3 Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33(e) and 270.30(m).]

I.K. COMPLIANCE SCHEDULE

I.K.1. Performance Demonstration Test. The Permittees shall perform periodic trial burns or "Performance Demonstration Tests" in accordance with the following requirements. (The Performance Demonstration Test is a combination of the Comprehensive Performance Tests and traditional RCRA "Trial Burn" to address site specific risk assessments. Unless otherwise specified, references in this Permit to 40 CFR Part 63 testing and related requirements applicable to incinerators should be interpreted as applicable to the operating reactivation furnace (RF-2) and its associated equipment.)

I.K.1.a. The Permittees shall submit a Performance Demonstration Test (PDT) Work Plan meeting the requirements of Permit Condition I.K.1.c. to the Director for approval in accordance with Permit Condition I.G.5. ***within 120 days after the final Permit is made effective***.

I.K.1.b. As for future PDTs, the Permittees shall conduct testing periodically in accordance with this Permit Condition I.K. and 40 CFR §§ 63.1207 and 63.1208. The date of commencement of each PDT is the basis for establishing the deadline to commence the subsequent PDT. The Permittees shall submit PDT Work Plans to the Director for approval ***at least one year before the start date of each subsequent PDT***. The Permittees shall commence testing no later than 61 months after the date of commencing the previous PDT. Except as provided in Permit Condition I.K.1.c., the Permittees may conduct performance testing at any time prior to the required date. [See 40 CFR Part 60 and §§ 63.8(d) and (e), 63.9(g), 63.1206(c)(5)(ii), 63.1207, 63.1208, 264.344(a)(1) and 270.62.]

I.K.1.c. The Permittees shall submit PDT Work Plans to the Director for approval in accordance with Permit Condition I.G.5. PDT Work Plans must include a

proposed schedule for performance of the PDT. The Permittees shall not undertake the performance of the PDT less than 60 days after the public notice required under Permit Condition I.K.1.f. Nor shall the Permittees undertake the performance of the PDT prior to the time the PDT Work Plan is approved by the Director. The PDT Work Plans shall be done in accordance with and must include the information listed at 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219 and 270.62(b)(2). The information provided in these regulatory provisions that are applicable to incinerators must be included in the PDT Work Plans, and address each performance parameter and emission limit set forth in Table V-4 of this permit. [See 40 CFR §§ 63.7, 63.8, 63.9(e), (f), (g) and (j), 63.1206(c)(5)(ii), 63.1207(b)(1), 63.1219, and 270.62(b)(2).]

I.K.1.d. The portions of the PDT Work Plans addressing provisions for testing for SOx and NOx emissions during the PDT, shall reference EPA Test Method 6 for SOx (as SO2) and EPA Test Method 7 for NOx as provided in Appendix A of 40 CFR Part 60. [See Appendix A of 40 CFR Part 60.]

I.K.1.e. Where appropriate, the Permittees shall incorporate into PDT Work Plans appropriate methods and/or performance specifications, as set forth in specifically applicable requirements and/or in the Appendices in 40 CFR Part 60. [See 40 CFR Part 60.]

I.K.1.f. The Permittees shall make the PDT Work Plans available to the public for review no later than 60 calendar days before initiation of the test. The Permittees must also provide a public notice to all persons on the facility's mailing list announcing the availability of the PDT Work Plan and the location where the PDT Work Plan is available for review. The PDT Work Plans must be accessible to the public for 60 calendar days, beginning on the date of the public notice. The location must be unrestricted and provide access to the public during reasonable hours and provide a means for the public to obtain copies. The notification must, at a minimum, include the information identified at 40 CFR § 63.1207(e)(2). [See 40 CFR § 63.1207(e).]

I.K.2. The Permittees shall complete performance testing ***within 60 days*** after the date of commencement of each of the PDTs in accordance with the approved PDT Work Plans. [See 40 CFR § 63.1207(d)(3).]

I.K.3. The Permittees shall submit to the Director for review and approval, in accordance with Permit Condition I.G.5., a PDT Report regarding the performance of the PDT ***within 90 days*** of the completion of each PDT.

I.K.3.a. The PDT Reports shall also include the results of the required CMS and CEMS Performance Tests, and the analysis of the parameters evaluated in accordance with Permit Condition I.K.1.

I.K.3.b. The PDT Reports shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to permit conditions based on the results of one or more PDTs in accordance with Permit Condition I.G.8. and 40 CFR Part 270.

I.K.3.c. The PDT Reports shall also include the CMS and CEMS Performance Test results, and any other information that is required in notifications of compliance status and certifications for incinerators under 40 CFR § 63.9(h)(2).

I.K.4. PDT Reports must include an assessment as to whether the operating parameters and emission limits set forth in Module V are being met with specific reference to the Group A1, Group A2, Group B and Group C parameters set forth in Module V of this Permit at Table V-2 – Operating Limits and Parameters.

I.K.4.a. If a PDT Report concludes that such parameters or limits are not being met, the Permittees must comply with the AWFCO requirements of the SSMP and otherwise comply with Permit Condition V.C.5.v., as appropriate for the particular parameter or limit not being met.

I.K.4.b. When a PDT Report concludes that such operating parameters or emission limits are not being met, the Permittees shall cease processing hazardous waste except in accordance with the provisions of 40 CFR §§ 63.1207(l)(1)(i) and (ii) and 63.1207(l)(2)(i),(ii) and (iii), as appropriate. [See 40 CFR § 63.1207(l).]

I.K.4.c. Where 40 CFR §§ 63.1207(l)(1)(ii)(A) or (C), and/or 63.1207(l)(2)(ii) and (iii) require the submittal of a revised Notification of Compliance, the Permittees shall submit Supplemental PDT Report(s) to the Director for review and approval in accordance with Permit Condition I.G.5. within 90 days of any subsequent test(s). [See 40 CFR § 63.1207(l).]

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I.K.5. Human Health and Ecological Risk Assessment

I.K.5.a. Within 90 days after the approval of a PDT Report, the Permittees shall submit a Human Health and Ecological Risk Assessment Work Plan to the Director for review and approval in accordance with Permit Condition I.G.5. The Work Plan should be consistent with good scientific principles. For example, the Permittees should consider EPA's current risk assessment guidance for combustion facilities and proposing the use of the latest air dispersion modeling software. The Risk Assessment Work Plans must include a proposed schedule for performance and completion of the Human Health and Ecological Risk Assessment.

I.K.5.b. In accordance with the schedule set forth in the approved Human Health and Ecological Risk Assessment Work Plan, the Permittees shall submit a Draft Human Health and Ecological Risk Assessment to the Director for approval in accordance with Permit Condition I.G.5.

I.K.5.c. Where an approved Human Health and Ecological Risk Assessment includes a recommendation for a modification of this Permit, the Permittees shall submit a request for such modification in accordance with Permit Condition I.G.8. and 40 CFR § 270.42. [See 40 CFR § 270.42.]

I.K.6. RF-1 Closure. ***Within 90 days after the final permit is effective***, the Permittees shall submit to EPA a closure activity notification designating the start date for the implementation of the schedule as specified in Section 9.0 of the Permit Attachment Appendix XVI. This closure activity notification, which will trigger the closure and dismantling of the non-operational reactivation furnace (RF-1) in accordance with the schedule set forth in Section 8.0 of the Permit Attachment Appendix XVI, shall include a start date that allows for completion of RF-1's closure no later than one (1) year from the effective date of this Permit. [See Sections 8.0 and 9.0 in Permit Attachment Appendix XVI.]

I.K.7. Hopper H-1 Containment. The Permittees shall submit a work plan for implementation of the requirements for the secondary containment for Hopper H-1 (H-1 Work Plan) to the Director for approval in accordance with Permit Condition I.G.5. ***within 90 days after the final Permit is effective***. The H-1 Work Plan shall include a schedule for implementation of the requirements for the secondary containment for Hopper H-1 and otherwise conform

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to the requirements of Permit Condition IV.F.6. This schedule shall provide for completion of implementation of the requirements for the secondary containment for Hopper H-1 no later than one (1) year from the effective date of this Permit. [See 40 CFR § 264.193.]

I.K.8. Integrity Assessment/Leak Test

I.K.8.a. The Permittees shall have the integrity of Hopper H-1 assessed by a professional engineer ***within 60 days after the final Permit is effective*** in accordance with 40 CFR § 264.191. This assessment must include a leak test, as described in 40 CFR § 264.191, or other integrity examination that is certified by a qualified Professional Engineer in accordance with 40 CFR § 270.11(d), that addresses cracks, leaks, corrosion, and erosion. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]

I.K.8.b. Until such time as the secondary containment for Hopper H-1 is implemented in accordance with Permit Conditions I.K.7, and IV.F.6.a., the Permittees must conduct a leak test, (or other integrity examination that meets the requirements of 40 CFR § 264.191), in accordance with 40 CFR § 264.193(i) and Permit Condition IV.F.6.b. to ensure the integrity of Hopper H-1. [See 40 CFR §§ 264.191, 264.193(i), and 270.11(d).]

I.K.9. If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7., the Permittees shall submit to the Director a contingent closure plan and proof of financial responsibility meeting the requirements of 40 CFR § 264.197(c), incorporated herein by this reference. [See also Permit Conditions IV.F.6.b.iii. and IV.M.3., and 40 CFR § 264.197(c).]

I.K.10. 40 CFR Part 264, Subpart BB Compliance

I.K.10.a. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section N and Subpart BB Compliance Plan (Permit Attachment Appendix XIX) within ***120 days after the final permit is effective.*** The revised Permit Attachment Section N and Subpart BB Compliance Plan shall identify the equipment subject to 40 CFR Part 264, Subpart BB at the facility and, for each piece of equipment so identified, whether the Permittees elect to determine compliance with this Permit either by documentation pursuant to 40 CFR Part 264,

Subpart BB, 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 CFR Parts 60, 61, 63 and 264. [See 40 CFR Part 264, Subpart BB.]

I.K.10.b. The revised Subpart BB compliance plan shall identify each piece of equipment that contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using one of the methods described in 40 CFR § 264.1063(d). [See 40 CFR § 264.1063(d).]

I.K.10.c. If revisions to Permit Attachment Section N and the Subpart BB Compliance Plan also necessitate any changes to the Waste Analysis Plan in order to comply with 40 CFR § 264.1063(d), the Permittees shall include a revised Waste Analysis Plan (WAP) with the Permit Modification request. [See 40 CFR § 264.1063(d).]

I.K.10.d. The documentation of compliance elected by the Permittees in accordance with 40 CFR § 264.1064(m) shall be included in the facility operating record in accordance with Permit Condition II.M.1.ii. [See 40 CFR § 264.1064(m).]

I.K.10.e. If the Permittees and EPA do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in 40 CFR § 264.1063(d)(1) or (d)(2) shall be used to resolve the disagreement. [40 CFR § 264.1063(d)(1) or (d)(2) and Permit Attachment Appendix XIX.]

I.K.11. Waste Carbon Feed Monitoring for Sulfur. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised Permit Attachment Section C, if necessary, and a revised Permit Attachment Appendix IV (Waste Analysis Plan) within ***60 days after the final Permit is effective.***

I.K.11. a. The revised Waste Analysis Plan shall include sampling for sulfur at the waste carbon feed every 6 hours to be composited and sent to the lab for analysis every 14 days.

I.K.11.b. The revised Waste Analysis Plan shall include a feed limit for sulfur oxides with reference to the limit expressed in Table V-1 of Module V of this Permit.

I.K.11.c. Once the revised Waste Analysis Plan is incorporated into the Permit, the Permittees are not authorized to feed in the RF-2 spent activated carbon that contains sulfur in concentrations exceeding permissible feed limits set forth in the revised Waste Analysis Plan in accordance with Module V, Table V-1.

I.K.12. Information Repository. ***Within 120 days of the effective date of this Permit***, the Permittees must establish an information repository that meets the requirements of 40 CFR § 124.33 and includes the records identified in Permit Exhibit I. ***Within 150 days of the effective date of this Permit***, the Permittees shall send notice of the location of the information repository to all persons on the facility's mailing list. [See 40 CFR §§ 124.33, 270.30(m), Permit Condition I.J. and Permit Exhibit I.]

I.K.13. Training Outline. ***Within 120 days of the effective date of this Permit***, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised and updated Permit Attachment Section H (Personnel Training Program) and Permit Attachment Appendix XIV (Training Syllabus Outline and Training Summary) that, in addition to addressing the requirements of 40 CFR § 264.16, specifically address the requirements of 40 CFR § 63.1206(c)(6). [See 40 CFR §§ 63.1206(c)(6) and 264.16.]

I.L. INFORMAL DISPUTE RESOLUTION (IDR)

I.L.1. Where the informal dispute resolution procedures of this Permit Condition I.L. are expressly identified as applicable, the following procedures shall apply:

I.L.1.a. The Permittee(s) may invoke the dispute resolution procedures by sending an Informal Dispute Resolution ("IDR") Notice to the Director in writing in accordance with Permit Conditions I.G.1. and I.G.2. Within the first fourteen (14) days after receipt of any such Notice, (the "informal dispute resolution period"), the Permittee(s) and the EPA staff person(s) responsible for the matter under dispute (the "permitting staff") will attempt to resolve any disputes informally. If requested by either of the Permittees, a meeting should be held between the permitting staff and the Permittee(s) and/or their representative(s) to discuss the matter. Unless otherwise agreed to by the permitting staff, the meeting will be held at the EPA Region 9's office in San Francisco, California, or by video or teleconference.

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I.L.1.b. If agreement is not reached between the permitting staff and the Permittee(s) within the fourteen (14) day informal dispute resolution period, and the Permittee(s) wish to continue the IDR process, the Permittee(s) must submit written arguments and evidence to the Director. The written arguments and evidence shall be submitted to the Director within thirty (30) days of the end of the informal dispute resolution period (*i.e.*, within 44 days after EPA's receipt of the IDR Notice) at the address identified in Permit Condition I.G.1.

I.L.1.c. If written arguments and evidence are submitted by the Permittee(s) to the Director, the Director will resolve the dispute within a reasonably prompt time period. The Director's resolution of the dispute shall include a written response to the evidence and arguments submitted by the Permittee(s). The Permittee(s) shall comply with the Director's decision regardless of whether the Permittee(s) agree with the decision. The Director's resolution of the dispute is not subject to administrative or judicial appeal.

I.L.2. Unless otherwise agreed to by the Director, invocation of IDR by the Permittee(s) shall not extend, postpone, or affect in any way any obligation of the Permittee(s) under this Permit not directly in dispute.

MODULE II - GENERAL FACILITY CONDITIONS

II. GENERAL FACILITY DESCRIPTION

Spent carbon is trucked to the Facility in several kinds of containers (*e.g.*, drums, vessels, supersacks, roll-off bins, *etc.*) or in tanker trucks. The spent carbon typically contains benzene or other volatile organic compounds (VOCs). The spent carbon is either introduced to the carbon regeneration system at the Facility upon receipt via one of two hoppers (H-1 or H-2) or it is moved to the Container Storage Area to be put in the hoppers later. The spent carbon is transferred from the hoppers to one of four Spent Carbon Storage Tanks (T-1, T-2, T-5, or T-6). During the transfer, water is added to the spent carbon, creating a slurry, to help in pumping the spent carbon from the hoppers to the storage tanks. From the storage tanks, the spent carbon is transferred in slurry form to the furnace Feed Tank (T-18). The spent carbon in its slurry form then gets sent from T-18 through a dewatering screw where the carbon slurry gets dewatered. The dewatered carbon then gets on the weigh belt where it is weighted and sampled, before it is fed to the operating Carbon Regeneration Furnace (RF-2).. The regenerated carbon is cooled in a cooling screw and is then sent to the product storage area for commercial packaging. Wastewater is processed through the waste water treatment system and is discharged to the local publically owned treatment works pursuant to a Clean Water Act discharge permit.

II.A. DESIGN AND OPERATION OF FACILITY

II.A.1. The Permittees shall maintain and operate the Facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. [See 40 CFR § 264.31.]

II.A.2. Except for those requirements set forth in 40 CFR §§270.4(a)(1)(i) – (iv), the Permittees are prohibited from any storage or treatment activity not specifically described in this Permit except insofar as the Permittees' hazardous waste generation, accumulation or less than 90 day storage activities are governed by 40 CFR Part 262. [See 40 CFR Part 262 and §§ 270.1(c) and 270.4(a)(1)(i) – (iv).]

II.A.3. The Permittees shall not store on land or land dispose of any hazardous waste on or at the Facility, whether temporarily or permanently. The Permittees shall comply with all applicable land disposal restriction requirements, including the prohibition on storage of restricted waste for over a year. [See 40 CFR Part 268].

II.A.4. Any Permittee-initiated modifications to the units designated in this Permit shall first be the subject of a Permit Modification request in accordance with Permit Condition I.G.7. and the permit modification procedures of 40 CFR § 270.42. [See 40 CFR § 270.42.]

II.A.5. The Permittees may store hazardous waste generated on-site in accordance with the provisions of 40 CFR Part 262. Any hazardous waste generated on-site that is to be treated on-site, or disposed of or transported off-site must be stored, handled, treated, transported and otherwise managed in accordance with the regulations applicable to hazardous waste generators at 40 CFR Part 262 and any other applicable requirements, such as 40 CFR Part 265 Subpart BB or requirements listed under 40 CFR §§ 270.4(a)(1)(i)-(iv), or this Permit. [See 40 CFR Part 262, 40 CFR Part 265, Subpart BB and §§ 270.1(c) and 270.4(a)(1)(i)-(iv).]

II.A.6. No less often than annually, the Permittees must certify, in accordance with 40 CFR § 264.73(b)(9), that there is a program in place to reduce the volume and toxicity of hazardous waste that is generated on-site to the degree economically practicable and that the proposed method of treatment, storage or disposal is that practicable method currently available to the Permittees which minimizes the present and future threat to human health and the environment. A copy of the certification must be maintained in the operating record in accordance with Permit Conditions I.E.9.b and II.M.1. [See 40 CFR § 264.73(b)(9) and Permit Conditions I.E.9.b., and II.M.1.]

II.B. REQUIRED NOTICES

II.B.1. If the Permittees expect to receive hazardous waste from a foreign source, the Permittees shall notify the Regional Administrator in writing at the address below

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at least four weeks in advance of the date the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source in the same calendar year is not required. [See 40 CFR § 264.12(a)(1).]

Regional Administrator
US EPA, Region 9
Mail Code: ORA-1
75 Hawthorne St.
San Francisco, CA 94105

II.B.2. When the Permittees are to receive hazardous waste from an off-site source (except where either Permittee is also the generator), they must inform the generator in writing that they have the appropriate hazardous waste Permit, and will accept the waste the generator is shipping. The Permittees must keep a copy of this written notice as part of the Facility's operating record in accordance with 40 CFR § 264.73. [See 40 CFR §§ 264.12(b) and 264.73.]

II.C. GENERAL WASTE ANALYSIS

II.C.1. The Permittees shall follow the waste analysis procedures in accordance with 40 CFR § 264.13, Permit Attachment Section C, and the Waste Analysis Plan, Permit Attachment Appendix IV. [See 40 CFR §264.13.]

II.C.2. The Permittees shall review the analysis of each waste stream provided by the generator as part of their quality assurance program in accordance with the frequencies set forth in the Waste Analysis Plan, Permit Attachment Appendix IV.

II.C.3. If an on-site lab is used, then the Permittees shall maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations.

II.C.4. If the Permittees use a contract or other off-site laboratory to perform analyses, then the Permittees shall inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this Permit. Any failure of the

laboratory to operate under the waste analysis conditions set forth in this Permit shall constitute a violation of the Permit by the Permittees. [See 40 CFR §264.13 and the Waste Analysis Plan, Permit Attachment Appendix IV.]

II.C.5. The Director, the Enforcement Director, or either's designee reserve the right to audit the on-site laboratory or the off-site laboratory utilized by the Permittees at any time.

II.C.6. The Director, the Enforcement Director, or either's designee reserve the right to sample the waste steam at the weigh belt to ensure compliance with this Permit.

II.C.7. The Permittees shall review the Waste Analysis Plan at least every two calendar years to determine if it is in compliance with current RCRA regulations and otherwise meets the needs of the Facility in accordance with Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV, incorporated herein by this reference. [See Section 7.0 of the Waste Analysis Plan, Permit Attachment Appendix IV.]

II.C.8. The Permittees shall comply with the test methods and procedural requirements described in 40 CFR § 264.1063 in accordance with the RCRA Subpart BB standards, where applicable, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR § 264.1063, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]

II.C.9. At the request of the Director, the Permittees shall perform a waste determination for a hazardous waste managed in any tank or container exempted from using air emission controls under the provisions of 40 CFR § 264.1082. [See 40 CFR § 264.1082(d).]

II.D. SECURITY

II.D.1. The Permittees shall comply with the security provisions of 40 CFR §264.14. The treatment process and operating areas of the Facility are surrounded by a fence as depicted on the Reactivation Facility Site Plan (D14789-08) contained

in Permit Attachment Appendix III. This Reactivation Facility Site Plan also shows gates for the Facility. All gates and building entrances must be locked or monitored when open. Additional access control requirements for the Facility are contained in Permit Attachment Section F (Procedures to Prevent Hazards), incorporated herein by this reference. [See 40 CFR § 264.14.]

II.D.2. The Permittees shall prevent, and minimize the possibility for, livestock and unauthorized people from entering the Facility. [See 40 CFR § 264.14(a).]

II.D.3. The Permittees shall post and maintain a sign at each entrance to the Facility, and at other prominent locations, in sufficient numbers to be seen from any approach to the Facility. The sign shall bear the legend "Danger - Unauthorized Personnel Keep Out". The legend shall be in English and in Spanish and must be legible from a distance of at least 25 feet. The Permittees may use existing signs with a legend other than "Danger--Unauthorized Personnel Keep Out" if the legend on the sign indicates that only authorized personnel are allowed to enter the Facility, and that entry onto the Facility can be dangerous. [See 40 CFR § 264.14(c).]

II.E. GENERAL INSPECTION REQUIREMENTS

II.E.1. The Permittees shall follow the inspection schedule as per Permit Attachment Section F and Permit Attachment Appendix XII and shall comply with the requirements of 40 CFR § 264.15. [See 40 CFR § 264.15.]

II.E.2. The Permittees shall inspect the facility for malfunctions and deterioration, operator errors, and discharges that may be causing, or may lead to any release of hazardous waste constituents to the environment or any threat to human health. The Permittees shall conduct these inspections often enough to identify problems in time to correct them before they result in harm to human health or the environment. [See 40 CFR § 264.15(a).]

II.E.3. The inspection should include at a minimum, monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards. Areas subject to spills,

such as loading and unloading areas, shall be inspected daily when in use. [See 40 CFR 264.15(b). See also Table V-3 in Module V.]

II.E.4. The Permittees shall remedy any deterioration or malfunction discovered by an inspection in accordance with 40 CFR §§ 264.15(c) and 264.171. [See 40 CFR §§ 264.15(c) and 264.171.]

II.E.5. The Permittees shall record all inspections. The Permittees shall keep these records for at least three years from the date of inspection. At a minimum, the Permittees must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions. [See 40 CFR § 264.15(d).]

II.F. MAINTENANCE AND OPERATION

II.F.1. The Permittees shall maintain, calibrate, and operate the Facility in accordance with this Permit and Table V-3 in Module V. [See 40 CFR § 264.15 and Table V-3 in Module V.]

II.F.2. The Permittees shall maintain the SWMUs, HWMUs, and AOCs and their equipment in good operating condition.

II.G. PERSONNEL TRAINING

II.G.1. The Permittees shall conduct personnel training in accordance with 40 CFR § 264.16, and in accordance with Permit Attachment Section H and Permit Attachment Appendix XIV, both of which are incorporated herein by this reference. [See 40 CFR § 264.16.]

II.G.2. The Permittees shall maintain training documents and records in accordance with 40 CFR §§ 264.16(d) and (e). [See 40 CFR §§ 264.16(d) and (e).]

II.H. SPECIAL PROVISIONS FOR CERTAIN WASTES

II.H.1. The Permittees are prohibited from storing or treating hazardous waste that is not

identified in Table II-2.

TABLE II-2 - PERMITTED HAZARDOUS WASTE

Description of permitted hazardous waste
D001, D004, D005 ,D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. F001, F002, F003, F004, F005, F006, F012, F019, F025, F035, F037, F038, F039 (except for F039 that contains dioxin or furans). K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K014, K015, K016, K017, K018, K019, K020, K022, K023, K024, K025, K026, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K046, K048, K049, K050, K051, K052, K061, K064, K065, K066, K071, K073, K083, K084, K085, K086, K087, K088, K090, K091, K093, K094, K095, K096, K097, K098, K100, K101, K102, K103, K104, K105, K106, K112, K113, K114, K115, K116, K117, K118, K125, K126. P001, P002, P003, P004, P005, P007, P008, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022 (rust), P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P077, P078, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P108, P109, P110, P113, P114, P115, P116, P118, P119, P120, P121, P123. U001, U002, U003, U004, U005, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U022, U024, U025, U026, U027, U028, U029, U030, U031, U032, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087,

U088, U089, U090, U091, U092, U093, U094, U095, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U124, U125, U126, U127, U128, U129, U130, U131, U132, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U225, U226, U227, U228, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249, U328, U353, U359.

II.H.2. The Permittees shall follow the procedures for handling ignitable and incompatible waste and otherwise comply with the requirements of 40 CFR § 264.17. The Permittees shall follow the procedures for handling ignitable wastes set forth in Permit Attachment Section C, incorporated herein by this reference. [See 40 CFR § 264.17 and Permit Attachment Section C, at C.2.4.]

II.H.3. Waste received from off-site may only be stored at the Facility if it is to be regenerated through thermal treatment in RF-2.

II.H.4. The Permittees shall comply with the requirements for Air Emission Standards for Equipment Leaks (40 CFR Part 264, Subpart BB) in accordance with Permit Application Appendix XIX and Permit Attachment Section N, incorporated herein by this reference. [See 40 CFR § 264.1050 *et seq.*, including 40 CFR § 264.1063(f), and Permit Condition I.K.10.]

II.H.5. The Permittees shall not accept, store, consolidate or treat any of the following:

II.H.5.a. Radioactive or nuclear wastes regulated by the U.S. Department of Energy and U.S. Nuclear Regulatory Commission including any spent carbon contaminated with such material;

II.H.5.b. Wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189)

including any spent carbon contaminated with such material;

II.H.5.c. Leachate from the disposal of more than one restricted waste (F039) including any spent carbon contaminated with such material if it contains wastes associated with dioxins and/or furans (*e.g.* F020, F021, F022, F023, F026, F027, F028, F032, K043, K099, K156, K158, K174, K178, P127, and/or P189), [See definition of "Dioxins and furans" in 40 CFR 260.10.];

II.H.5.d. Wastes regulated under the Toxic Substances Control Act (TSCA) that contain levels of polychlorinated biphenyls (PCBs) equal to or greater than 50 mg/Kg (ppm), or where the source of the PCBs is equal to or greater than 50 ppm including any spent carbon contaminated with such material;

II.H.5.e. Medical or infectious wastes including any spent carbon contaminated with such material; or

II.H.5.f. RCRA mixed waste (radioactive and hazardous waste) including any spent carbon contaminated with such material.

II.H.5.g. Corrosive (D002) or reactive waste (D003) including spent carbon containing corrosive or reactive waste.

II.H.5.h. Benzedine-contaminated waste (U021) including spent carbon containing benzedine.

II.I. LOCATION STANDARDS

The Facility is not within a 100-year floodplain. In the event of a flood, the Permittees shall remove all hazardous waste, before flood waters can reach the Facility, to a location where the wastes will not be vulnerable to the flood waters. [See 40 CFR § 264.18(b), Permit Attachment Section B and Permit Attachment Appendix II.]

II.J. PREPAREDNESS AND PREVENTION

II.J.1. Required Equipment

At a minimum, the Permittees shall maintain the following at the Facility:

- An internal communications or alarm system at or near areas of the Facility where hazardous waste is stored, treated or otherwise managed that is or are capable of providing immediate emergency instruction (voice or signal) to facility personnel;

- A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;

- Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and

- Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems. [See 40 CFR § 264.32.]

II.J.2. Testing And Maintenance Of Emergency Equipment

The Permittees shall test and maintain all the communications and alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, as necessary, to assure its proper operation in time of emergency. Specific testing and maintenance procedures are included in the inspection schedule in Permit Attachment Section F and in Permit Attachment Appendix XII. [See 40 CFR § 264.33.]

II.J.3. Access To Communications Or Alarm System

Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, the Permittees shall ensure that all personnel involved in the operation have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee. If there is ever just one employee on the premises while the Facility is operating, the Permittees shall ensure that he or she has immediate access to a device, such as a telephone (immediately available at the scene

of operation) or a hand-held two-way radio, capable of summoning external emergency assistance. [See 40 CFR § 264.34.]

II.J.4. Required Aisle Space

The Permittees shall maintain adequate aisle space at the Facility in accordance with Permit Attachment Section D, Permit Attachment Appendix III, and Permit Attachment Appendix VII. At a minimum, the Permittees shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency and for the purposes of conducting inspections. [See 40 CFR § 264.35.]

II.J.5. Arrangements with Local Authorities

The Permittees shall maintain arrangements with the appropriate state, local, and Colorado River Indian Tribes (CRIT) authorities in accordance with 40 CFR § 264.37. The Permittees shall periodically update the arrangements, at least every five years from the effective date of this Permit. If state, local, or CRIT officials refuse to renew the preparedness and prevention arrangements with the Permittees, the Permittees must get this refusal in writing and document this refusal and maintain such documentation in the Facility's operating record until closure is completed and certified. The Permittees shall also notify the Director of the Waste Management Division of this refusal by the local authority(ies). [See 40 CFR §§ 264.37, Permit Attachment Section G and Permit Appendix XIII.]

II.K. CONTINGENCY PLAN

II.K.1. Implementation of Plan

The Permittees shall comply with the requirements of 40 CFR §§264.50 through 264.56. The Permittees must immediately carry out the provisions of the Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII, whenever there is a fire, explosion, or release of hazardous waste or constituents which could threaten human health or the environment. [See 40 CFR §§ 264.50 through 264.56.]

II.K.2. Copies of Plan

The Permittees shall maintain a copy of the Contingency Plan at the Facility, including all revisions to the plan and must submit a copy (and a copy of all revisions) to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services. The Contingency Plan, Permit Attachment Section G and Permit Attachment Appendix XIII is hereby incorporated into this Permit by this reference. [See 40 CFR § 264.53.]

II.K.3. Amendments to Plan

II.K.3.a. The Permittees shall review and immediately amend, if necessary, the Contingency Plan, whenever:

II.K.3.a.i. The facility permit is revised;

II.K.3.a.ii. The plan fails in an emergency;

II.K.3.a.iii. The facility changes—in its design, construction, operation, maintenance, or other circumstances—in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;

II.K.3.a.iv. The list of emergency coordinators changes; or

II.K.3.a.v. The list of emergency equipment changes. [See 40 CFR § 264.54.]

II.K.3.b. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with the accompanying amended Contingency Plan. [See 40 CFR § 270.42.]

II.K.4. Emergency Coordinator

The Permittees shall ensure that a trained emergency coordinator is available at all times at the Facility or on call in case of an emergency, in accordance with 40 CFR § 264.55.

[See 40 CFR §§ 264.52(d) and 264.55.]

II.L. MANIFEST SYSTEM

II.L.1. The Permittees shall comply with the manifest requirements of 40 CFR §§264.70, 264.71, 264.72, and 264.76. [See 40 CFR §§ 264.70, 264.71, 264.72, and 264.76. See also § 270.30(l)(7) and (8).]

II.L.1.a. If a significant discrepancy in a manifest is discovered, the Permittees must attempt to reconcile the discrepancy. If not resolved within fifteen days, the Permittees must submit a letter report, including a copy of the manifest, to the Director. [See 40 CFR §§264.72 and 270.30(l)(7).]

II.L.1.b. An unmanifested waste report must be submitted to the Director within 15 days of receipt of unmanifested waste. [See 40 CFR §§264.76 and 270.30(l)(8).]

II.L.1.c. Pursuant to 40 CFR § 264.71, electronic manifests that are obtained, completed, and transmitted in accordance with §262.20(a)(3) and used in accordance with 40 CFR § 264.71 in lieu of the paper manifest form are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement to obtain, complete, sign, provide, use, or retain a manifest. [See 40 CFR §§ 262.20(a)(3) and 264.71.]

II.M. RECORDKEEPING AND REPORTING

In addition to the recordkeeping and reporting requirements specified elsewhere in this Permit, the Permittees shall do the following:

II.M.1. Operating Record

II.M.1.a. The Permittees shall maintain a written operating record at the facility in accordance with 40 CFR § 264.73. [See 40 CFR § 264.73.]

II.M.1.b. The Permittees shall record and maintain, in the operating record for this Permit, all monitoring, inspection, and other data compiled under the requirements of this Permit in accordance with 40 CFR §§ 63.1211, 264.73 and 264.1064. The Permittees shall also maintain the test burn reports, data, and calculations in the operating record. [See Permit Condition I.K. and 40 CFR §§ 63.1211, 264.73 and 264.1064.]

II.M.1.c. The Permittees shall maintain, in the operating record for this Permit, the manuals listed in the Operating and Maintenance Manuals Maintained on Site Table identified in Permit Attachment Appendix XXI. Whenever the list of manuals needs to be revised, the Permittees shall submit a request for a Permit Modification in accordance with Permit Condition I.G.7. along with the accompanying revised Table. [See 40 CFR §§ 63.8(c)(3) and 63.1209(b)(2).]

II.M.1.d. The Permittees shall maintain, in the operating record for this Permit, the site specific CMS quality control performance evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

II.M.2. Reporting Requirements

The Permittees shall comply with the reporting requirements of 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090, as appropriate. To the extent that the cited regulatory requirements call for overlapping reporting of information, the Permittees may merge the information into one or more reports and need not provide duplicative information. [See 40 CFR §§ 61.357, 63.1211, 264.77, 264.1089 and 264.1090.]

II.M.3. Biennial Report

The Permittees shall comply with the biennial reporting requirements of 40 CFR §264.75. [See 40 CFR §§ 264.75 and 270.30(l)(9).]

II.M.4. Subpart BB Recordkeeping and Reporting

In accordance with 40 CFR § 264.1064(m), if any "equipment" at the facility, as defined at 40 CFR § 264.1031, contains or contacts hazardous waste with an organic concentration of at least 10 percent by weight for 300 hours or more per calendar year and is subject to regulations at 40 CFR Part 60, Part 61, or part 63 and the Permittees elect to determine compliance with 40 CFR Part 264, Subpart BB 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 Part 60, Part 61, or Part 63, the documentation of compliance under the regulations at 40 CFR Part 60, Part 61, or Part 63 shall be kept with or made readily available with the facility operating record. Otherwise, the Permittees shall comply with the recordkeeping and reporting requirements described in 40 CFR §§ 264.1064 and 264.1065 in accordance with the RCRA Subpart BB standards, Permit Attachment Section N and Permit Attachment Appendix XIX, incorporated herein by this reference. [See 40 CFR §§ 264.1031, 264.1064 and 264.1065, Permit Attachment Section N and Permit Attachment Appendix XIX. See also Permit Condition I.K.10.]

II.M.5. Application Recordkeeping

Except as provided in Permit Condition I.J., the Permittees shall comply with the recordkeeping requirements described in 40 CFR § 270.10(i). [See 40 CFR § 270.10(i).]

II.N. GENERAL CLOSURE REQUIREMENTS

II.N.1. Performance Standard

II.N.1.a. The Permittees shall close the Facility in accordance with Permit Conditions III.L., IV.M., and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*), Permit Attachment Section I, and Permit Attachment Appendices XV and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*), the RCRA Facility Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XV and

XVII.]

II.N.1.b. The Permittees shall close RF-1 in accordance with Permit Conditions I.K, and V.H., and 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII, each of which is incorporated herein by this reference. [See 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*), RF-1 Closure Plan, Permit Attachment Section I, and Permit Attachment Appendices XVI and XVII.]

II.N.2. Closure Plan Review

The Director reserves the right to review the closure plans at any time to ensure both contain all the requirements to meet the closure requirements of 40 CFR Part 264, Subpart G, (40 CFR §§264.110 *et seq.*). This review may include any unusual activities, notices of violation, and inspection reports. [See 40 CFR Part 264, Subpart G.]

II.N.3. Amendment to Closure Plans

II.N.3.a. The Permittees shall amend either or both the RCRA Facility Closure Plan and the RF-1 Closure Plan, in accordance with 40 CFR §264.112(c), whenever necessary. [See 40 CFR § 264.112.]

II.N.3.b. If the Director determines at any time that either or both closure plans require modification, the Permittees shall modify either or both closure plans as appropriate to incorporate findings identified by the Director's review in accordance with 40 CFR §§264.112(c)(4) and 270.42. [See 40 CFR §§ 264.112 and 270.42.]

II.N.3.c. If, prior to the time the notice of closure required by Permit Condition II.N.4. is submitted, the Permittees determine that an amendment to the Closure Plan is appropriate, the Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised closure plan at least

180 days before initiation of closure activities in accordance with 40 CFR § 270.42. [See 40 CFR § 270.42.]

II.N.4. Notification of Closure

In addition to the Notice of Closure of RF-1 required by Permit Condition I.K., the Permittees shall notify the Director in writing at least 60 days prior to the date on which they expect to begin closure of any additional part of the Facility or to begin final closure of the Facility. [See 40 CFR § 264.112(d).]

II.N.5. Time Allowed For Closure

Within 90 days after receiving the final volume of hazardous waste, the Permittees shall treat, remove from the unit or Facility, or dispose of on-site all hazardous waste and shall complete closure activities, in accordance with 40 CFR § 264.113 and the schedules specified in the Closure Plans, Permit Attachment Section I and Appendices XV and XVI. [See 40 CFR §§ 264.113 and 270.42.]

II.N.6. Disposal or Decontamination of Equipment, Structures, and Soils

The Permittees shall decontaminate and dispose of all contaminated equipment from the Facility, support structures, and soils in accordance with 40 CFR § 264.114 and the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. **[**See 40 CFR § 264.114.]

II.N.7. Certification of Closure

The Permittees shall certify that the Facility has been closed in accordance with 40 CFR § 264.115 and the specifications in the Closure Plans, Permit Attachment Section I, and Permit Attachment Appendices XV and XVI. **[**See 40 CFR § 264.115.]

II.O. GENERAL POST-CLOSURE REQUIREMENTS

If waste is left in place (*e.g.* equipment, platforms, SWMUs), the Permittees shall submit

a post-closure permit application in accordance with the requirements of 40 CFR Part 264, Subpart G. [See 40 CFR §§ 264.117 through 264.120.]

II.P. COST ESTIMATE FOR FACILITY CLOSURE

II.P.1. The Permittees' most recent closure cost estimates, for facility-wide closure and RF-1 closure, respectively, are specified in Attachment 4 to the Closure Plan, Permit Attachment Section I, and Permit Attachment Appendix XV and Attachment 4 to the RF-1 Closure Plan, Permit Attachment Section I and Permit Attachment Appendix XVI, which are each incorporated herein by this reference. [See 40 CFR §§ 264.142, 264.144, 264.197(c)(3) and (5), 264.228(c)(2), and 264.258(c)(2).]

II.P.2.

II.P.2.a. The Permittees must adjust the closure cost estimate for inflation within 60 days prior to each annual anniversary date of the establishment of the financial instrument(s) used to comply with 40 CFR § 264.143. [40 CFR § 264.142(b).]

II.P.2.b. If at any time during the operation of the Facility, the Permittees use a financial test or corporate guarantee to meet the financial responsibility requirements in accordance with 40 CFR §264.143(f), the Permittees must adjust the closure cost estimate for inflation within 30 days after the close of owner or operator's fiscal year, as appropriate, and before submission of updated information to the Director in accordance with 40 CFR § 264.142(b)**.** [See 40 CFR § 264.142(b).]

II.P.3. The Permittees must revise either or both closure cost estimates whenever there is a change in either or both of the Facility's Closure Plans in accordance with 40 CFR § 264.142(c). [See 40 CFR § 264.142(c).]

II.P.4. The Permittees must keep the latest closure cost estimates (for RF-1 and the Facility-wide closure) at the Facility in accordance with 40 CFR § 264.142(d). [See 40 CFR § 264.142(d).]

II.P.5. New, updated or revised financial assurance instruments and updated cost estimates must be submitted to the Director in accordance with 40 CFR §§ 264.142 and 264.143. [40 CFR §§ 264.142 and 264.143.]

II.Q. FINANCIAL ASSURANCE FOR FACILITY CLOSURE

The Permittees shall demonstrate continuous compliance with the requirements of 40 CFR § 264.143 by providing documentation of financial assurance, as required by and in accordance with 40 CFR § 264.151, in at least the amount of the cost estimates required by Permit Condition II.P. Requests for changes in financial assurance mechanisms demonstrating compliance with this Permit Condition II.Q. shall be submitted to the Director for review and approval in accordance with Permit Condition I.G.5. before being implemented. [See 40 CFR §§ 264.143 and 264.151.]

II.R. LIABILITY REQUIREMENTS

The Permittees shall demonstrate continuous compliance with the requirement of 40 CFR § 264.147(a) to have and maintain liability coverage for sudden and accidental occurrences in the amount of at least $1 million per occurrence, with an annual aggregate of at least $2 million, exclusive of legal defense costs. [See 40 CFR § 264.147(a).]

II.S. INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS

The Permittees shall comply with 40 CFR § 264.148, whenever applicable. [See 40 CFR § 264.148.]

MODULE III - CONTAINERS

III.A. APPLICABILITY

This Module provides requirements for any containers used to store or treat hazardous waste at the Facility, including those received from off-site sources. Waste analysis requirements are contained in Module II, in Permit Condition II.C., in Permit Attachment Section C, and in Permit Attachment Appendix IV, the Waste Analysis Plan. [See 40 CFR § 264.13.]

III.B. GENERAL REQUIREMENTS FOR CONTAINERS

III.B.1. The Permittees shall not manage, store, treat, and/or consolidate hazardous waste in containers other than in the designated container storage areas listed in Table III-1 below. [See 40 CFR § 264.170.]

III.B.2. The Permittees must maintain the Spent Carbon Container Storage Area containment capacity of at least 10,000 gallons. [See 40 CFR § 264.175(b)(3).]

III.B.3. The Permittees shall not manage, store, and/or consolidate containers of hazardous wastes in excess of the maximum capacities for each individual container storage area identified in Table III-1.

TABLE III-1
CONTAINER STORAGE AREAS, SATELLITE ACCUMULATION AREAS, AND DESIGN CAPACITIES

Description	Location*	Capacity
Spent Carbon Container Storage	Warehouse	100,000 gallons
Satellite accumulation area	North side of container storage area	55 gallons
Satellite accumulation area	South side of container storage area	55 gallons
Satellite accumulation area	East of control room	55 gallons or less

Description	Location*	Capacity
Satellite accumulation area	Facility on-site screening laboratory	55 gallons or less
Container storage area for waste generated on-site	South east of H-1 hopper	40 cubic yards or less per bin

* Note: Locations may vary due to facility needs. Permit Attachment Appendix III contains diagrams and maps with unit locations

III.B.3. The Permittees must manage all containers used to store or otherwise manage hazardous waste at the Facility in accordance with 40 CFR Part 264, Subpart I. [See 40 CFR Part 264, Subpart I.]

III.B.4. Closure requirements for containers used to store or otherwise manage hazardous waste are included in Module II, in Permit Condition II.N, in this Module III, in Permit Condition III.L., Permit Attachment Section I and Permit Attachment Appendices XV and XVI. [See 40 CFR §§ 264.111 and 264.178.]

III.C. CONDITION OF CONTAINERS

The Permittees shall maintain containers in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a container holding hazardous waste is not in good condition or, if the container begins to leak, the Permittees shall repair the container or place it into another suitable container or transfer the waste from such a container into a container that is in good condition. [See 40 CFR § 264.171.]

III.D. COMPATIBILITY OF WASTE WITH CONTAINER

III.D.1. The Permittees must use containers that are made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous wastes to be stored, so that the ability of the containers to contain the waste is not impaired. [See 40 CFR § 264.172.]

III.D.2. For all containers within a singular secondary containment system, the Permittees shall ensure that the containers are compatible with all wastes within that containment system. [See 40 CFR § 264.172.]

III.D.3. The Permittees shall assure compliance with Permit Condition III.D.1. by utilization of the procedures (*e.g.*, testing of waste and containers) and equipment specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV.

III.D.4. The Permittees shall conduct pre-acceptance characterization of waste, as specified in the Waste Analysis Plan, Permit Attachment Section C and Permit Attachment Appendix IV, and ensure proper precautions are taken so as to prevent accidental ignition or reaction of ignitable or incompatible wastes. [See 40 CFR §§ 264.172, 264.176 and 264.177.]

III.E. MANAGEMENT OF CONTAINERS

III.E.1. The Permittees shall always keep all containers holding hazardous waste closed during storage, except when it is necessary to add or remove waste. [See 40 CFR § 264.173(a).]

III.E.2. The Permittees shall never open, handle, or store a container holding hazardous waste in a manner that may rupture the container or cause the container to leak. [See 40 CFR § 264.173(b).]

III.E.3. Storage Configuration

III.E.3.a. The Permittees shall maintain adequate aisle space between rows of containers to allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility. [See 40 CFR § 264.35.]

III.E.3.b. A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak. [See 40 CFR § 264.173(b).]

III.E.3.c. The Permittees shall not exceed the maximum volumes of waste for each category of containers listed in Table III-2. [See 40 CFR § 264.173.]

TABLE III-2

LIST OF CONTAINER TYPES AND VOLUMES

Container Type	Volume (ft^3)	Volume (US Gallons)
VSC/ASC 200/Drums	7.9	59
VSC/ASC 400	17.5	131
VSC/ASC 1000	44.9	336
VSC/ASC 2000	82.0	614
VSC 3000	164	1228
PV1000	44.9	336
PV2000	82.0	614
"Supersack"	Up to 67	Up to 500

III.F. CONTAINMENT SYSTEMS

III.F.1. The Permittees shall provide secondary containment for all hazardous waste containers in accordance with 40 CFR § 264.175(b) except that storage areas that store containers holding only wastes that do not contain free liquids need not have such a containment system so long as the storage area meets the requirements of 40 CFR § 264.175(c). [See 40 CFR §§ 264.175(b) and (c).]

III.F.2.

III.F.2.a. The Permittees shall remove all accumulated liquid, including spilled and/or leaked wastes and all accumulated precipitation or run-on from the sump or collection area in a timely manner to prevent overflow of the collection system. [See 40 CFR § 264.175(b)(5).]

III.F.2.b. At a minimum, removal of liquid shall occur within 24 hours of the initial accumulation of liquid, or sooner, based on inspection of the containment area. [See Permit Attachment Section F and Permit Appendix XII.]

III.F.2.c. If the collected material from a secondary containment system is a hazardous waste, it must be managed as a hazardous waste in accordance with all applicable requirements of this Permit and RCRA. [See 40 CFR § 264.175(b).]

III.F.2.d. The Permittees shall address any spills or leaks from the pad and, if applicable, containment system in accordance with 40 CFR §§264.15(c) and 264.171. [See 40 CFR §264.15(c) and 264.171.]

III.G. AIR EMISSION CONTROLS FOR CONTAINERS

III.G.1. The Permittees shall store and manage hazardous waste in containers in accordance with the requirements specified in 40 CFR Part 264, Subpart CC, Permit Attachment Section O and Permit Attachment Appendix XX. [See 40 CFR §264.179, and Part 264, Subpart CC.]

III.G.2. For containers exempted under 264.1082(c), the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures specified in 40 CFR § 264.1083(a). The average volatile organic concentration shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). [See 40 CFR §§ 264.1082(c) and 264.1083(a).]

III.G.3. In accordance with 40 CFR § 264.1082(c)(1), for containers exempted under 264.1082(c)(1), the Permittees shall review and update, as necessary, the determination of average volatile organic concentration of the waste at the point of waste generation at least once every 12 months following the date of the initial determination for the hazardous waste streams managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]

III.G.4. For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in containers exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR §§ 264.1082(c)(2) and 264.1083(b). [See 40 CFR §§ 264.1082(c)(2) and 264.1083.]

III.G.5. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC (referred to as "CC"). For wastes subject to the requirements of RCRA CC that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are received in containers at the facility, in addition to any other applicable provisions in this Module, the Permittees shall:

III.G.5.a. Visually observe container condition and record the material (carbon size) and how full the container is by percentage as per Permit Attachment Appendix IV, Appendix B Tally Sheet;

III.G.5.b. This Permit Condition III.G.5.b. applies to: (1) any hazardous waste containers having a design capacity greater than 0.1 cubic meters and less than or equal to 0.46 cubic meters for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight; and (2) any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is not "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 1 standards" in accordance with 40 CFR Part 264, Subpart CC. [See 40 CFR § 264.1086(b) and (c).]

III.G.5.c. This Permit Condition III.G.5.c. applies to any hazardous waste containers having a design capacity greater than 0.46 cubic meters that is "in light material service" as that term is defined in 40 CFR § 265.1081, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 2 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (d).]

III.G.5.d. This Permit Condition III.G.5.d. applies to any hazardous waste containers having a design capacity greater than 0.1 cubic meters that is used for

treatment of a hazardous waste by a waste stabilization process, for which all hazardous waste in or entering the unit has an average volatile organic concentration at the point of waste origination of more than 500 parts per million by weight. These containers must comply with the "Container Level 3 standards" in accordance with 40 CFR Part 264 Subpart CC. [See 40 CFR § 264.1086(b) and (e).]

III.G.6. For containers that contain or contact hazardous wastes with organic concentrations of 10% by weight or less, the Permittees shall comply with 40 CFR §§ 264.1063 and 264.1064. [See 40 CFR §§ 264.1050(b), 264.1063(d), and 264.1064(k).]

III. H. INSPECTION SCHEDULES AND PROCEDURES

III.H.1. The Permittees shall, upon receipt of containers of hazardous waste, inspect the containers in accordance with Permit Attachment F and Permit Appendices IV and XII and shall also ensure the container is in good condition within the meaning of 40 CFR § 264.171. Pursuant to 40 C7FR § 264.171, if any container is determined to be not in good condition or if it begins to or has leaked, the Permittees must transfer the hazardous waste from the container to a container that is in good condition or manage the waste in some other way that complies with the provisions of this Permit. [See 40 CFR § 264.171.]

III.H.2. The Permittees shall conduct daily inspections of the Spent Carbon Container Storage Area and the containers stored there in accordance with Permit Attachment F and Permit Appendix XII and shall maintain daily records of inspections at the facility.

III.H.3. The Permittees shall, at a minimum, conduct weekly inspections of all areas where hazardous waste containers are stored or managed, in accordance with the provisions of and inspection schedule in Permit Attachment F and Permit Appendix XII, to detect leaking containers and deterioration of containers or the containment system, which may be caused by corrosion or other factors. [See 40 CFR § 264.174.]

III.H.4. The Permittees' inspections shall include inspection and monitoring of any air emission control equipment used to comply with the provisions of Permit

Condition III.G. in accordance with a written plan and schedule in accordance with 40 CFR § 264.1088.

III.H.5.

III.H.5.a. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 1 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers as follows:

III.H.5.a.i. Visually inspect the container, cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position;

III.H.5.a.ii. Repair defects, if detected, in accordance with the requirements, including time frames, of 40 CFR § 264.1086(c)(4)(iii) ;

III.H.5.a.iii. If a container used for managing hazardous waste remains at the facility for a period of 1 year or more, the owner or operator shall visually inspect the container and its cover and closure device(s) initially and thereafter, at least once every 12 months, to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. [See 40 CFR § 264.1086(c)(4).]

III.H.5.b. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 2 Standards that will not or may not be emptied within 24 hours of their receipt at the Facility and conduct an inspection on or before receipt of such containers in accordance with the requirements of 40 CFR § 264.1086(d)(4). [See 40 CFR § 264.1086(d)(4).]

III.H.5.c. Prior to their receipt, identify any hazardous waste containers subject to the Container Level 3 Standards and inspect and monitor the closed vent systems and control devices on such containers in accordance with the

requirements of 40 CFR § 264.1086(e)(4). [See 40 CFR § 264.1086(e)(4).]

III.I. RECORD KEEPING AND REPORTING

III.I.1. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the recordkeeping requirements of 40 CFR §§ 264.1086 and 264.1089. [See 40 CFR §§ 264.1086 and 264.1089.]

III.I.2. For hazardous waste containers subject to the requirements of RCRA CC, including those subject to one of the exemptions listed at 40 CFR § 264.1082(c), the Permittees shall comply with the reporting requirements of 40 CFR § 264.1090. [See 40 CFR § 264.1090.]

III.I.3. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.J.1., (location of buffer zone [15 m or 50 ft] and containers holding ignitable or reactive wastes). [See 40 CFR §§ 264.176.]

III.I.4. The Permittees shall retain sketches, drawings, or data demonstrating compliance with Permit Condition III.K.3., (location of incompatible wastes in relation to each other), where applicable. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.177.]

III.I.5. The Permittees shall maintain at the Facility until closure is completed and certified by an independent, registered professional engineer, the following hazardous waste container-specific documents and information and all amendments, revisions, and modifications to these documents and information:

III.I.5.a. For storage areas that store hazardous waste containers having free liquids, a description of the containment system to demonstrate compliance with container storage area provisions of 40 CFR § 264.175. This description must show the following:

III.I.5.a.i. Basic design parameters, dimensions, and materials of construction;

III.I.5.a.ii. How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;

III.I.5.a.iiii. Capacity of the containment system relative to the number and volume of hazardous waste containers to be stored;

III.I.5.a.iv. Provisions for preventing or managing run-on; and

III.I.5.a.v. How accumulated liquids can be analyzed and removed to prevent overflow.

III.I.5.b. For storage areas that store containers holding hazardous wastes that do not contain free liquids, a demonstration of compliance with 40 CFR 264.175(c), including:

III.I.5.b.i Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and

III.I.5.b.ii. A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.

III.I.6. When management of ignitable or reactive waste or incompatible waste occurs at the Facility, the Permittees must document compliance with Permit Conditions III.J. and III.K. This documentation may be based on references to published scientific or engineering literature, data from trial tests (e.g., bench scale or pilot scale tests), waste analyses (as specified in the Waste Analysis Plan), or the results of the treatment of similar wastes by similar treatment processes and under similar operating conditions. [See Permit Appendix IV (Waste Analysis Plan) and 40 CFR § 264.17(c).]

III.J. SPECIAL CONTAINER PROVISIONS FOR IGNITABLE AND REACTIVE WASTES

III.J.1. The Permittees shall not locate containers holding ignitable or reactive waste within 50 feet (15 meters) of the facility property line. The physical location of this 50-foot boundary shall be permanently marked and maintained while the facility is in operation. [See 40 CFR § 264.176.]

III.J.2. The Permittees shall prevent accidental ignition or reaction of ignitable or reactive waste. The Permittees shall follow the procedures specified in the Waste Analysis Plan (Permit Appendix IV) regarding the identification of ignitable and reactive wastes. [40 CFR §§ 264.177(a) and 264.176.]

III.J.3 The Permittees shall comply with the general requirements of 40 CFR § 264.17 for ignitable or reactive wastes managed or stored in containers at the Facility. [See 40 CFR § 264.17.]

III.J.4. Containers of ignitable and reactive wastes shall be stacked no more than two containers high.

III.K. SPECIAL CONTAINER PROVISIONS FOR INCOMPATIBLE WASTE

III.K.1. The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same container unless such placement is performed in accordance with the provisions of 40 CFR § 264.17(b). [See 40 CFR §§ 264.17(b) and 264.177(a).]

III.K.2. The Permittees shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material. [See 40 CFR § 264.177(b).]

III.K.3. The Permittees shall separate containers of incompatible wastes as specified in the Waste Analysis Plan. Storage containers with incompatible wastes shall be separated from other material or be protected from other materials by means of a berm, dike, wall, or other device. [See 40 CFR § 264.177(c).]

III.K.4. The Permittees shall ensure that the management of any incompatible wastes at the Facility will not result in any leak, corrosion, compromise or failure of any secondary containment required by this Permit. [See 40 CFR § 264.175.]

III.L. CLOSURE

III.L.1. At closure, all hazardous waste and hazardous waste residues must be removed from the containment system. Remaining containers, liners, bases and soil containing or contaminated with hazardous waste or hazardous waste residues must be decontaminated or removed. [See 40 CFR § 264.178.]

III.L.2. At closure, the Permittees must manage any hazardous waste removed from the containment system in accordance with the requirements of this Permit. [See comment to 40 CFR § 264.178.]

MODULE IV - STORAGE IN TANKS

IV.A. APPLICABILITY

IV.A.1. All hazardous waste tank systems and tank-like systems managed at the Facility must comply with the design, installation, and other requirements for "new tank systems" at 40 CFR § 264.192, incorporated herein by this reference, as opposed to the requirements for "existing tank systems" at 40 CFR § 264.191. [See 40 CFR §§ 260.10, 264.191 and 264.192.]

IV.A.2. Except as otherwise specifically set forth in this Permit, the requirements of 40 CFR § 264, Subpart J, Subpart BB (Subpart BB), and Subpart CC (Subpart CC), and 40 CFR § 61, Subpart FF (Subpart FF) are applicable to the hazardous waste tanks systems (T-1, T-2, T-5, T-6, and T-18) that are used to store or otherwise manage hazardous waste at the Facility. Map of Tanks systems' locations can be found in the Permit Attachment Appendix III. Certain air emission control requirements also apply to Tank T-11, as indicated in Permit Condition IV.G.1. and Table IV-2.

IV.A.3. This module also contains Permit Conditions for the Hoppers H-1 and H-2, which are ancillary equipment to Tank Systems T-1, T-2, T-5 and T-6 and are used to transport or feed hazardous waste to these Tank Systems. These Hoppers are defined as "open valves or lines" under RCRA's air emissions requirements found at 40 CFR Part 264, Subpart BB, and as "individual drain systems" under the Clean Air Act's air emission control requirements for individual drain systems found at 40 CFR Part 61, Subpart FF.

IV.A.4. Table IV-1 below provides descriptions of the hazardous waste tank systems that are discussed in this Module and that are subject to the permit conditions of this Module.

TABLE IV-1
INFORMATION ABOUT HAZARDOUS WASTE TANK SYSTEMS

Tank/Ancillary Equipment No. & Description	*Tank/Ancillary Equipment Materials Of Construction*	*Tank/Ancillary Equipment Dimensions*	*Tank/Ancillary Equipment Design Capacity (Gallons)*	*Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure (kPa)*
T-1 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-2 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-5 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-6 spent carbon storage tank	300 Series Stainless Steel, Fixed Roof	16'-0" Straight Side 10'-0" Diameter 8'-0" 62° Bottom Cone	8,319 gal.	Atmospheric
T-18 RF-2 Feed Tank	300 Series Stainless Steel	7'-6" Straight Side 10'-4.5" Diameter 9'-4.75" 60° Bottom Cone	6,500 gal.	Atmospheric
H-1 Outdoor spent	Mild Steel	14' length x 8' width	5000 lb. capacity	Atmospheric

Tank/Ancillary Equipment No. & Description	*Tank/Ancillary Equipment Materials Of Construction*	*Tank/Ancillary Equipment Dimensions*	*Tank/Ancillary Equipment Design Capacity (Gallons)*	*Tank/Ancillary Equipment Maximum Allowable Design Vapor Pressure (kPa)*
carbon unloading hopper		x 7' height		
H-2 Indoor spent carbon unloading hopper	Mild Steel	4' length x 4' width x 4' height	5000 lb. capacity	Atmospheric

IV.B. GENERAL REQUIREMENTS FOR TANK SYSTEMS

IV.B.1. Tank design capacities for the tanks and the hoppers are shown in Table IV-1. This design capacity for each tank or hopper shall not be exceeded.

IV.B.2. Prior to the installation of any new tank systems, tank-like systems or components, the Permittees shall submit to the Director the information required in a Part B permit application for new tank systems or components in accordance with 40 CFR §§ 264.192, along with an accompanying request for a permit modification in accordance with Permit Condition I.G.7. (See 40 CFR §§ 264.192 and 270.42.)

IV.B.3. Hoppers H-1 and H-2, described in Table IV-1, are considered ancillary equipment to Tanks T-1, T-2, T-5 and T-6 and must meet each of the requirements applicable to ancillary equipment that are set forth in 40 CFR Part 264, Subpart J, which is incorporated herein by this reference. (See 40 CFR § 264.190 *et seq.*)

IV.B.4. Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hoppers H-1 and H-2 that meet the requirements of 40 CFR § 264.192(a) as follows:

IV.B.4.a. Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-1 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]

IV.B.4.b. Pursuant to the Schedule of Compliance set forth in Permit Condition I.K., the Permittees must obtain and submit written assessments for Hopper H-2 that meet the requirements of 40 CFR § 264.192(a) and that demonstrate compliance with 40 CFR § 264.192. The Permittees must maintain a copy of these assessments on file at the Facility in accordance with 40 CFR § 264.192(g). [See 40 CFR § 264.192 and Permit Condition I.K.]

IV.C. CONDITION OF TANK SYSTEMS

IV.C.1. The Permittees shall maintain hazardous waste tank systems in good condition (*e.g.*, no severe rusting, apparent structural defects, etc.). If a tank system holding hazardous waste is not in good condition or, if the tank system begins to leak, the Permittees shall repair the tank system or transfer the waste from such a tank system into one or more tanks systems or containers that are in good condition. [See 40 CFR § 264.171.]

IV.D. COMPATIBILITY OF WASTE WITH TANK SYSTEMS

IV.D.1. Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the tank's containment system to rupture, leak, corrode, or otherwise fail. [See 40 CFR § 264.194(a).]

IV.E. MANAGEMENT OF TANK SYSTEMS

IV.E.1. The Permittees must use appropriate controls and practices to prevent spills and overflows from tank systems or containment systems. [See 40 CFR § 264.194(b).]

IV.E.2. The Permittees must utilize appropriate spill prevention controls (*e.g.*, check valves, dry disconnect couplings), overfill prevention controls (*e.g.*, level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank), and maintenance of sufficient freeboard in uncovered tanks and H-1 to prevent overtopping by wind action or by precipitation. [See 40 CFR § 264.194(b).]

IV.E.3. The Permittees shall ensure that the unloading and feeding of waste into H-1 and H-2 are done in a manner that prevents the migration of waste from these units. The Permittees may not use the units H-1 or H-2 for waste storage and are required to pump any waste fed into H-1 or H-2 into Tanks T-1, T-2, T-5 or T-6 as soon as practical, even if carbon regeneration operations at the Facility have ceased or been curtailed.

IV.F. CONTAINMENT SYSTEMS

IV.F.1. The Permittees must maintain secondary containment in accordance with the requirements of 40 CFR § 264.193. [See 40 CFR § 264.193.]

IV.F.2. The secondary containment must be designed or operated to contain 100 percent of the capacity of the largest tank within its boundary, and must be designed and operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. [See 40 CFR §§ 264.193(e)(1)(i), (ii), (iii) and (iv) and Permit Attachment Appendix IX.]

IV.F.3. The Permittees shall maintain the secondary containment in a manner so as to prevent any migration of wastes or accumulated liquid out of the system to the soil, ground water, or surface water at any time during the use of the tank systems. The Permittees must ensure that the secondary containment is free from cracks or gaps by maintaining a sealant on any such areas that is compatible with the spent carbon. [See 40 CFR §§ 264.193(b)(1) and (e)(1)(iii).]

IV.F.4. The Permittees must retain the containment volume of secondary containment within the concrete pad that serves as the secondary containment for Tanks T-1, T-2, T-5 and T-6 at or above the 9,847 gallons at all times. The maximum tank volume of Tanks T-1, T-2, T-5 and T-6 is 8,319 gallons and the calculated applicable rainfall volume for secondary containment for Tanks T-1, T-2, T-5 and T-6 is 1,528 gallons. The containment volume must meet the total required volume of 9,847 gallons. [See 40 CFR § 264.193(e) and Permit Attachment Appendix IX.]

IV.F.5. The Permittees shall maintain the double walled tank T-18 in accordance with 40 CFR 264.193(e)(3). [See 40 CFR § 264.193(e)(3).]

IV.F.6. Spent Carbon Unloading Hopper H-1

IV.F.6.a. In accordance with the Compliance Schedule set forth in Permit Condition I.K., the Permittees shall submit to EPA for approval a work plan with a schedule for providing secondary containment for the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.193. [See 40 CFR § 264.193.]

IV.F.6.b.i. Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must conduct a leak test or other integrity assessment to ensure the integrity of Hopper H-1 annually from the date of the leak test or other integrity assessment required in Permit Condition I.K. and maintain a record of the results of each such assessment in the operating record at the Facility and otherwise comply with the requirements of 40 CFR § 264.193(i), incorporated herein by this reference. [See 40 CFR § 264.193(i).]

IV.F.6.b.ii. Until such time as the secondary containment for Hopper H-1 is provided in accordance with Permit Condition IV.F.6.a., the Permittees must perform daily inspections of the spent carbon unloading Hopper H-1 in accordance with 40 CFR § 264.195(f). [See 40 CFR § 264.195(f).]

IV.F.6.b.iii. If the secondary containment for Hopper H-1 is not implemented within a year from the effective date of this Permit, as provided in accordance with Permit Conditions I.K.7. and IV.F.6.a., the Permittees shall be subject to the requirements of Permit Conditions I.K.9. and II.M.3., and 40 CFR § 264.197(c), incorporated herein by this reference. [See 40 CFR § 264.197(c).]

IV.F.7. The Permittees shall maintain the secondary containment for the spent carbon unloading Hopper H-2 in the container storage warehouse in accordance with 40 CFR § 264.193(e)(1). The pad under H-2 serves as a liner external to the hopper, providing secondary containment. [See 40 CFR § 264.193(e)(1).]

IV.G. AIR EMISSION CONTROLS

IV.G.1. Tank systems T-1, T-2, T-5, T-6, T-11 and T-18 are subject to air emission control requirements pursuant to this Permit. Tanks T-1, T-2, T-5, T-6 and T-18 and hoppers H-1 and H-2 are equipped with closed vent systems leading to air pollution control devices. The Permittees must comply with the RCRA and CAA

regulations that are identified in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2 and that relate to the emissions standards, monitoring records, reporting and management requirements for the correlating units, *i.e.*, tanks T-1, T-2, T-5, T-6, T-11 and T-18, and their associated ancillary equipment, (H-1 and H-2), and the carbon adsorbers WS-1, WS-2, and WS-3, and their associated closed vent systems (e.g. hoses/piping and connections). [See Permit Attachment Sections N and O, Permit Attachment Appendices XIX and XX, Permit Attachments Subpart BB Compliance Plan and Subpart FF Compliance Plan and 40 CFR Part 61 and §§ 264.1050 *et* seq., 264.1087, 264.1088, 264.1089, and 264.1090.]

IV.G.2.

IV.G.2.a. If sampling and analysis or operator knowledge of the waste entering Tank T-11 demonstrates that the average annual Volatile Organic concentration of the waste entering the unit is greater than or equal to 500 parts per million by weight, the Permittees shall ensure that tank T-11 complies with the "Air Emission Control Regulations Applicable to this Unit" in Table IV-2.

IV.G.2.b. For Hoppers H-1 and H-2, the Permittees must ensure that H-1 and H-2 are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for open ended valves or lines or with 40 CFR Part 61, Subpart FF requirements for individual drain systems, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 *et seq.*, and §§ 61.340 *et seq.* See also Permit Condition I.K.10.]

IV.G.2.c. For carbon adsorber WS-2 and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, the Permittees must ensure that WS-2, and any such piping, connections and devices, are at all times in compliance with either 40 CFR Part 264, Subpart BB requirements for closed-vent systems and control devices or with 40 CFR Part 61, Subpart FF requirements for closed vent systems and control devices, as set forth in the column labeled "Air Emission Control Regulations Applicable to this Unit" in Table IV-2. [See 40 CFR §§ 264.1050 *et seq.*, and §§ 61.340 *et seq.* See also Permit Condition I.K.10.]

IV.G.3. In accordance with Permit Attachment Section N and Permit Attachment Appendix XIX, the Permittees must comply with the requirements of 40 CFR Part

264, Subpart BB. **[**See 40 CFR Part 264, Subpart BB. See also Permit Condition I.K.10.]

IV.G.4. In accordance with Permit Attachment Section O and Permit Attachment Appendix XX, the Permittees must comply with the record-keeping and reporting requirements of 40 CFR §§ 264.1089(f)(1) and 264.1090(a) when operating the scrubber, recycler, boiler and cooling tower blow-down storage tank, T-11. [See Permit Attachment Section O, Permit Attachment Appendix XX, and 40 CFR §§ 264.1089(f)(1) and 264.1090(a).]

IV.G.5. The Permittees shall maintain and operate the air pollution control equipment at the Facility in a manner consistent with good air pollution control practice for minimizing emissions. [See, *e.g.*, 40 CFR §264.31.]

TABLE IV-2
MANAGEMENT OF EACH TANK SYSTEM, HOPPERS AND THE AIR POLLUTION CONTROL DEVICES

Tank or Unit No.	**Description**	**Air Emission Control Requirements Applicable to this Unit**
T-1	Spent Carbon Storage Tank. Tank T-1 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-2	Spent Carbon Storage Tank. Tank T-2 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-5	Spent Carbon Storage Tank. Tank T-5 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-6	Spent Carbon Storage Tank. Tank T-6 vapors are controlled by a closed vent system leading to carbon adsorber (WS-1).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
T-11	Scrubber/ Recycle/	40 CFR §§ 264.1082(c)(1),

Tank or Unit No.	Description	Air Emission Control Requirements Applicable to this Unit
	Boiler and Cooling Tower Blow-Down Water Storage Tank	264.1089(f)(1) and 264.1090(a). Tank T-11 is subject to monitoring and record keeping requirements of 40 CFR Part 264, Subpart CC. If sampling and analysis or operator knowledge of the waste entering Tank T-11 demonstrates that the average annual Volatile Organic concentration of the waste entering the unit is greater than or equal to 500 parts per million by weight, the Permittees shall at such time ensure that tank T-11 meets the additional requirements of 40 CFR §§ 264.13(b)(8), 264.1082, 264.1084 and 264.1087.
T-18	Hearth feed tank or spent carbon feed tank. Tank T-18 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-3).	40 CFR Part 61, Subparts A and FF and 40 CFR §264.1089(j).
H-1	Outdoor spent carbon unloading hopper (open ended line; individual drain system). Hopper H-1 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-2).	40 CFR §§ 61.01 through 61.19, 61.346 (or 40 CFR Part 264, Subpart BB), and Permit Conditions I.K.10., II.H.4. and IV.G.3.
H-2	Indoor spent carbon unloading hopper (open ended line; individual drain system). Hopper H-2 vapors are controlled by a closed vent system leading to a carbon adsorber (WS-2).	40 CFR §§ 61.01 through 61.19, 61.346 and 264.1064(m) (or 40 CFR Part 264, Subpart BB), and Permit Conditions I.K.10., II.H.4. and IV.G.3.
WS-1	Carbon Adsorber No.1 and associated Closed Vent System (e.g. connections and hoses/piping) for tanks T-1, T-2, T-5, and T-6. WS-1, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-1, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1089(j), and Permit Conditions II.H.4. and IV.G.3.

Tank or Unit No.	Description	Air Emission Control Requirements Applicable to this Unit
WS-2	Carbon Adsorber No.2 and associated Closed Vent System (e.g. connections and hoses/piping) for hoppers H-1 and H-2. WS-2, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-2, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), and 264.1064(m) (or 40 CFR Part 264, Subpart BB, for closed vent systems and control devices) and Permit Conditions I.K.10., II.H.4. and IV.G.3.
WS-3	Carbon Adsorber No.3 and associated Closed Vent System (e.g. connections and hoses/piping) for tank T-18. WS-3, and the piping, connections, and any flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to WS-3, is an air pollution control device.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1089(j), and Permit Conditions II.H.4. and IV.G.3..
Closed Vent Systems Connected to WS-1 and WS-3	Hoses/piping and connections leading from tanks to adsorbers. The piping, connections, and any flow-inducing devices that transport gas or vapor from the hazardous waste tanks to air pollution control devices, such as WS-1, and WS-3, are closed vent systems.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1089(j), and Permit Conditions II.H.4. and IV.G.3.
Closed Vent Systems Connected to WS-2	Hoses/piping and connections leading from hoppers to adsorbers. The piping, connections, and any flow-inducing devices that transport gas or vapor from the hoppers to an air pollution control device, such as WS-2, are closed vent systems.	40 CFR §§ 61.01 through 61.19, 61.349, 61.354(d), 264.1064(m), (or 40 CFR Part 264, Subpart BB, for closed vent systems) and Permit Conditions I.K.10., II.H.4. and IV.G.3.

IV.G.6. For hazardous waste managed and/or stored on site in any tank systems that are not equipped with air pollution control devices installed prior to December 6, 1996, the Permittees shall determine the average volatile organic concentration of the waste at the point of waste generation, in accordance with the procedures

specified in 40 CFR § 264.1083(a). The average shall be determined over an annual timeframe, as specified in 40 CFR § 264.1083(a). In accordance with 40 CFR § 264.1082(c)(1), the Permittees shall 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 managed and/or stored in such containers. [See 40 CFR §§ 264.1082 and 264.1083.]

IV.G.7. For any hazardous waste that has been treated at the Facility, the Permittees shall perform the applicable waste determinations for each treated hazardous waste placed in tanks that are exempted under the provisions of 40 CFR § 264.1082(c)(2)(i) through (c)(2)(vi) in accordance with the procedures specified in 40 CFR § 264.1083(b). [See 40 CFR § 264.1083.]

IV.G.8. Certain hazardous wastes or volumes of hazardous wastes managed at the facility trigger air emission control requirements under either the RCRA air emission control provisions at 40 CFR Part 264, Subpart CC or the Clean Air Act air emission control provisions at 40 CFR Part 61, Subpart FF, or both. For wastes subject to the requirements of either RCRA Subpart CC or CAA Subpart FF or both that are not subject to one of the exemptions listed at 40 CFR § 264.1082(c), that are managed in tank systems at the Facility, in addition to the requirements in Permit Condition III.G.1, the Permittees shall:

IV.G.8.a.i. This Permit Condition IV.G.8.a.i. applies to any hazardous waste tank that meets all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 1 controls specified in 40 CFR § 264.1084(c) or the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 1 or Tank Level 2 controls apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 1 or Tank Level 2 controls, as applicable. [See 40 CFR §§ 264.1084(b)(1), (c) and (d).]

IV.G.8.a.ii. This Permit Condition IV.G.8.a.ii. applies to any hazardous waste tank that does not meet all of the conditions specified in 40 CFR § 264.1084(b)(1)(i) through (iii), and which is not equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees must control air pollutant emissions from such tanks in accordance with the Tank Level 2 controls specified in 40 CFR § 264.1084(d). If Tank Level 2 controls

apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to Tank Level 2 controls. [See 40 CFR §§ 264.1084(b)(2), and (d).]

IV.G.8.a.iii. This Permit Condition IV.G.8.a.iii. applies to any hazardous waste tank for which air pollution emissions are controlled by venting the tank to a control device, other than those tanks equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall control air emissions from such tanks in accordance with the requirements set forth at 40 CFR § 264.1084(g)(1) through (g)(3). If the requirements of 40 CFR § 264.1084(g)(1) through (g)(3) apply, the Permittees must perform inspections, recordkeeping and reporting required for tanks subject to 40 CFR 264.1084(g). [See 40 CFR §§ 264.1084(g).]

IV.G.8.a.iv. This Permit Condition IV.G.8.a.iv. applies to the transfer of hazardous waste to any hazardous waste tank where the average volatile organic concentration is above the standard set forth at 40 CFR 264.1082(c)(1) (*i.e.*, 500 ppmw) other than to a tank equipped with a carbon canister meeting the requirements of 40 CFR § 61, Subpart FF. The Permittees shall transfer hazardous waste to any such tank in accordance with the requirements of 40 CFR § 264.1084(j). [See 40 CFR § 264.1084(j).]

IV.G.8.b. This Permit Condition IV.G.8.b. applies to any tank equipped with a carbon canister meeting the requirements of 40 CFR Part 61, Subpart FF. The Permittees shall operate and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to the carbon canister in accordance with the following requirements:

IV.G.8.b.i. The fixed-roof shall meet the requirements set forth at 40 CFR § 61.343(a)(1)(i).

IV.G.8.b.ii. The closed-vent system and control device (*i.e.*, carbon canister) shall be designed and operated in accordance with the requirements of 40 CFR § 61.349. [See 40 CFR Part 61, Subpart FF.]

IV.G.9. The Permittees shall change-out the carbon in WS-1, WS-2 and WS-3, respectively, in accordance with the schedule set forth in the Permit Attachment Appendix XXIII, Section 4.5 and the engineering calculations in Appendix C thereto to ensure control of emissions from volatile organic compounds (VOCs)

into ambient air.

IV.G.10. The Permittees shall comply with the record keeping requirements of 40 CFR §§ 264.1064(m) and 264.1089(j) for any tank or equipment equipped with and operating air emission controls in accordance with CAA requirements set forth in 40 CFR Parts 60, 61, or 63, which are deemed in compliance with 40 CFR Part 264 Subpart BB or Subpart CC, as appropriate. [See 40 CFR §§ 264.1064(m) and 264.1089(j). See also Permit Condition I.K.10.]

IV.H. INSPECTION SCHEDULES AND PROCEDURES

IV.H.1. The Permittees shall inspect the tank systems, in accordance with the Inspection Schedule in Permit Attachment Section F and Permit Attachment Appendix XII. [See 40 CFR § 264.195, Permit Attachment Section F and Permit Attachment Appendix XII.]

IV.H.2. The Permittees shall visually inspect the spent carbon storage tank systems, (T-1, T-2, T-5, T-6 and T-18), daily. This inspection shall include, at a minimum:

IV.H.2.a. A visual inspection of the above-ground portions of the tank systems to detect corrosion or releases of waste in accordance with 40 CFR § 264.195(c)(1);

IV.H.2.b. A visual inspection of the construction materials and the area immediately surrounding the externally accessible portion of each tank system, including the secondary containment systems to detect erosion or signs of releases of hazardous waste in accordance with 40 CFR § 264.195(c)(2);

IV.H.2.c. Ancillary equipment that is not provided with secondary containment, as described in 40 CFR § 264.193(f)(1) through (4), must be inspected at least once each operating day in accordance with 40 CFR § 264.195(f); and

IV.H.2.d. For ancillary equipment not contained or located over secondary containment, a leak test must be conducted annually in accordance with 40 CFR § 264.193(i). [See 40 CFR § 264.193(i).]

IV.H.3. The Permittees shall conduct daily inspections of the overfill/spill control equipment (*e.g.*, waste-feed cutoff systems, bypass systems, and drainage

systems) to ensure that this equipment is in good working order. [See 40 CFR § 264.195.]

IV.H.3.a. The Permittees shall conduct daily visual inspections of the tank walls and pad for wetness, cracks, holes, or other evidence of malfunction. [See Permit Attachment Section F.]

IV.H.3.b. The Permittees shall, on a daily basis, check for leaks around the valve areas, couplings, and threaded nipples, as applicable. [See Permit Attachment Section F.]

IV.H.3.c. The Permittees shall, on a daily basis, check tank markings for weathering and proper identification of tank contents. [See Permit Attachment Section F.]

IV.H.3.d. The Permittees shall, on a daily basis, check external tank walls for signs of corrosion and pitting. [See Permit Attachment Section F.]

IV.H.4. At least once each operating day, the Permittees shall conduct reviews of the data gathered from monitoring and leak detection equipment (*e.g.*, pressure or temperature gauges, monitoring wells) to ensure that the tank systems are being operated according to their designs. [See 40 CFR § 264.195(b).]

IV.H.5. The Permittees shall visually inspect daily the valve position and level monitoring systems for proper operation. [See Permit Attachment Section F.]

IV.H.6. The Permittees shall perform inspections of each hazardous waste tank to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. [See 40 CFR § 264.1084.]

IV.H.7. Ultrasonic Thickness Testing

IV.H.7.a. The Permittees shall conduct annual ultrasonic thickness testing at the bottom of the cylinder wall above the cone-cylinder intersection and at the previous locations of minimum shell thickness readings (as recommended in the tank assessment in the Permit Attachment Appendix IX) for each major component (top head, cylinder wall, bottom cone and support skirt) on each of tanks T-1, T-2, T-5, T-6 and T-18. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

IV.H.7.b. In addition, the Permittees shall conduct comprehensive ultrasonic thickness testing every five (5) years for each major component (top head, cylinder wall, bottom cone, and support skirt) on each of the and tanks T-1, T-2, T-5, T-6 and T-18 as recommended in the tank assessment in the Permit Attachment Appendix IX. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

IV.H.7.c. The Permittees shall remove from service and repair or replace any tank with cylindrical wall thickness that is less than or equal to 0.157 inches. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

IV.H.7.d. The Permittees shall replace all carbon steel components and fittings of any hazardous waste tank system that are in direct contact with spent carbon and recycle water slurry with 300 series stainless steel components and fittings prior to performing the next set of comprehensive ultrasonic thickness test measurements. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

IV.H.8. The Permittees shall inspect the air emission control equipment in accordance with the following requirements and Permit Attachment Section F and Permit Attachment Appendix XII. The Permittees shall visually inspect the carbon adsorption systems (WS-1, WS-2, and WS-3) and their closed vent systems on a daily basis to ensure there are no leaks from these devices and that they are properly operated. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. [See Permit Attachment Section F and Permit Attachment Appendix XII.]

IV.H.9. The Permittees shall maintain the paint coating on exterior surfaces of all tank system components that are carbon steel by repainting if visual observation indicates that 20% or greater of the component's paint coating is damaged. [See Permit Attachment Section F and Permit Attachment Appendix IX.]

IV.H.10. If a tank system or component is found to be leaking or unfit for use as a result of the leak test or assessment, the Permittees shall comply with Permit Condition IV.C. of this Permit and notify the Director in accordance with Permit Condition IV.J. of this Permit. [See 40 CFR § 264.193(i)(5).]

IV.I. RESPONSE TO LEAKS, SPILLS OR DEFECTS

IV.I.1. In the event of: (1) a leak or a spill from a tank system, (2) a leak or spill from a secondary containment system, (3) a system becomes unfit for continued use due to defects or a state of disrepair, or (4) a defect in a carbon adsorber is detected, the Permittees shall remove the system from service immediately and complete the following actions:

IV.I.1.a. Immediately stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release. [See 40 CFR § 264.196(a).]

IV.I.1.b. Remove waste and accumulated precipitation from the system within 24 hours of the detection of the leak to prevent further release and to allow inspection and repair of the system. [See 40 CFR § 264.196(b).]

IV.I.1.b.i. If the Permittees find that it will be impossible to meet this time period, the Permittees shall, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the system to be performed and in as timely a manner as is possible to prevent harm to human health or the environment. In such event, the Permittees shall also provide prompt notification (*i.e.*, within 24 hours of detection of the leak) to the Director regarding any additional time that may be required to complete removal of waste and accumulated precipitation from the system. The Director may approve the additional time required or set another time frame to complete removal of the leaked material in their sole discretion.

IV.I.1.b.ii. If the collected material is a RCRA hazardous waste, it must be managed in accordance with all applicable requirements of this Permit. The Permittees shall note that if the collected material is discharged through a point source to U.S. waters or to a Publicly Owned Treatment Works (POTW), such discharge is subject to requirements of the Clean Water Act. If the collected material is released to the environment, it may be subject to additional reporting requirements pursuant to 40 CFR Part 302.

IV.I.1.c. Contain visible releases to the environment. The Permittees shall immediately

conduct a visual inspection of all releases to the environment and based on that inspection:

IV.I.1.c.i. Prevent further migration of the leak or spill to soils or surface water; and

IV.I.1.c.ii. Remove and properly dispose of any visible contamination of the soil or surface water. [See 40 CFR § 264.196(c).]

IV.I.1.d. Close the system in accordance with the Closure Plan, Permit Attachment I, unless the following actions are taken:

IV.I.1.d.i. For a release caused by a spill that has not damaged the integrity of the system, the Permittees shall remove the released waste and make any necessary repairs to the system before returning the system to service. [See 40 CFR § 264.196(e)(2).]

IV.I.1.d.ii. For a release caused by a leak from a tank system to a secondary containment system, the Permittees shall repair the tank system prior to returning it to service. [See 40 CFR § 264.196(e)(3).]

IV.I.1.d.iii. For a release to the environment caused by a leak from a component of a tank system that does not have secondary containment, the Permittees shall repair the tank system in accordance with 40 CFR § 264.196(e)(4) before returning it to service. [See 40 CFR § 264.196(e)(4).]

IV.I.1.d.iv. For a defect or other problem detected during equipment inspections, repairs must be performed within the time frames outlined in Table 1 of the Permit Attachment Appendix XXIII, Subpart FF Compliance Plan.

IV.I.1.e. For all major repairs to eliminate leaks or restore the integrity of the tank systems, the Permittees must obtain a certification by an independent, qualified, registered Professional Engineer in accordance with 40 CFR § 270.11(d) and notify the Director that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair or

replacement of a secondary containment vault. [See 40 CFR § 264.196(f).]

IV.I.2. In the event a defect is detected during any of the inspections required under Permit Condition IV.H.8., the Permittees shall repair each defect detected in accordance with 40 CFR §§ 264.1084(k)(1) and (2). [See 40 CFR §§ 264.1084(k)(1) and (2).]

IV.J. RECORDKEEPING AND REPORTING

IV.J.1. For any existing tank system that does not have secondary containment meeting the requirements of 40 CFR § 264.193, the Permittees must maintain and keep on file at the Facility a written assessment in accordance with 40 CFR § 264.191. [See 40 CFR § 264.191.]

IV.J.2. Unless a leak or spill of hazardous waste is exempted from the reporting requirements in accordance with 40 CFR § 264.196(d)(2), the Permittees shall report to the Director, within 24 hours of detection, regarding any leak or spill of hazardous waste to the environment. [See 40 CFR §§ 264.196(d)(1) and (2).]

IV.J.3. Within 30 days of detecting a release to the environment from a tank system or secondary containment system, the Permittees shall report the following information to the Director:

IV.J.3.a. Likely route of migration of the release;

IV.J.3.b. Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);

IV.J.3.c. Results of any monitoring or sampling conducted in connection with the release, if available. (If sampling or monitoring data relating to the release are not available within 30 days, these data must be submitted to the Director as soon as they become available.);

IV.J.3.d. Proximity of down gradient drinking water, surface water, and populated areas; and

IV.J.3.e. Description of response actions taken or planned. [See 40 CFR § 264.196(d)(3).]

IV.J.4. If the Permittees have repaired a tank system in accordance with permit condition IV.I.1.e., the Permittees shall maintain the required Professional Engineer certification in the operating record at the Facility until closure of the Facility is completed. [See 40 CFR § 264.196(f).]

IV.J.5. The Permittees shall maintain at the Facility a record of the most recent results of leak tests and integrity tests for each tank system or secondary containment system conducted in accordance with this Permit. [See 40 CFR §§ 264.193(i)(4).]

IV.J.6. The Permittees shall document compliance with Permit Conditions IV.H.1. through IV.H.6 and IV.H.8. and place this documentation in the operating record for the Facility for at least three (3) years from the date such inspection or test occurs. The Permittees shall maintain records of the Ultrasonic Thickness testing for at least 5 years from the date such testing occurs. [See 40 CFR §§ 264.73 and 264.195(h).]

IV.J.7. The Permittees shall maintain a copy of the Permit Attachment Subpart FF Compliance Plan in the Facility's operating record for the operating life of the facility.

IV.J.8. In accordance with 40 CFR § 264.1064, the Permittees shall maintain documentation pertaining to WS-1, WS-2 and WS-3 as required by either 40 CFR § 61.355 or 40 CFR §§ 264.1060 and 264.1064, as elected in the [revised] Subpart BB Compliance Plan, Permit Attachment Appendix XIX, pursuant to Permit Condition I.K.10. [See 40 CFR § 61.355 and 40 CFR §§ 264.1060 and 264.1064. See also Permit Condition I.K.10.]

IV.K. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTES

IV.K.1. The Permittees shall not place ignitable waste in a tank or secondary containment system unless one of the following conditions is met:

IV.K.1.i. The waste is treated, rendered, or mixed before or immediately after placement in the tank system so that it meets the requirements of 40 CFR § 264.198(a)(1)(i) and (ii);

IV.K.1.ii. The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite; or

IV.K.1.iii. The tank system is used solely for emergencies. [See 40 CFR § 264.198(a). See also Permit Condition II.H.1.]

IV.K.2. If ignitable waste is stored or treated in a tank system at the Facility, the Permittees must comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981). [See 40 CFR § 264.198(b). See also Permit Condition II.H.1.]

IV.L. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTES

IV.L.1. The Permittees shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(a).]

IV.L.2. The Permittees shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless they are doing so in compliance with 40 CFR § 264.17(b) and Permit Condition II.H.1. [See 40 CFR §§ 264.17(b) and 264.199(b).]

IV.M. CLOSURE AND POST-CLOSURE CARE

IV.M.1. At closure of each tank system, the Permittees shall follow the procedures in the Closure Plan and in Permit Attachment Section I and Permit Attachment Appendix XV. [See 40 CFR § 264.197(a). See also Permit Attachment Section I and Permit Attachment Appendix XV.]

IV.M.2. If the Permittees demonstrate that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, then the Permittees shall close such tank system(s) and perform post-closure care following the contingent procedures in the Closure Plan (Permit Attachment Section I and Permit Attachment Appendix XV) and in Permit Condition II.N. [See 40 CFR § 264.197(b). See also Permit Attachment Section I and Permit Attachment Appendix XV.]

IV.M.3. If the secondary containment for Hopper H-1 is not implemented within a year

from the effective date of this Permit, the contingent closure plan and proof of financial responsibility requirements of 40 CFR § 264.197(c) shall be implemented in accordance with Permit Condition I.K.9. [See also Permit Condition IV.F.6.b.iii. and 40 CFR § 264.197(c).]

MODULE V

THERMAL TREATMENT UNIT/CARBON REGENERATION FURNACE

V.A. APPLICABILITY

V.A.1. This module contains Permit Conditions for the operating Carbon Regeneration Furnace (RF-2), which consists of a five hearth furnace and the Afterburner (AB-2), and is classified as a miscellaneous unit, as defined in 40 CFR § 260.10. RF-2 and AB-2 are subject to the requirements set forth at 40 CFR Part 264, Subpart X. The RF-2 unit is used to regenerate spent activated carbon via thermal treatment. Process flow diagrams and a description of the carbon reactivation process are included in Permit Attachment Appendix VI. [See 40 CFR §§ 260.10, 264.600 to 264.603, and 270.23.]

V.A.2. This module also includes permit conditions for the Air Pollution Control Equipment (APCE) for RF-2, AB-2, ancillary equipment of RF-2 and AB-2, and the feed system from Tank T-18. The APCEs are the Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack. The five hearth furnace (RF-2), AB-2, and all their associated components (ancillary equipment [*e.g.*, piping, weigh belt] and the APCEs) are collectively referred to herein as the "RF-2." [See 40 CFR §§ 264.600 to 264.603, and 270.23.]

V.A.3. RF-2 is subject to the conditions and requirements set forth in this Module. Based on the authority contained in the regulations at 40 CFR §§ 264.600 *et seq.*, additional requirements are included in this Module to ensure protection of human health and the environment. These additional requirements are also based on 40 CFR Part 264 Subpart O, (Incinerators) and 40 CFR Part 63, Subpart EEE (Hazardous Waste Combustor, Maximum Achievable Control Technology Standards). [See 40 CFR §§ 63.1200 *et seq.*, 260.10, 264.600 to 264.603, and 270.23.]

V.B. GENERAL REQUIREMENTS FOR RF-2

V.B.1. Waste Processing and Handling Requirements

V.B.1.i. The Permittees receive hazardous wastes, *i.e.*, spent activated carbon from different generators, for treatment in RF-2. The Permittees also generate spent activated carbon onsite that constitutes a hazardous waste. The Permittees shall abide by the requirements established in Permit Condition V.B.2. for all wastes permitted for treatment in RF-2.

V.B.1.ii. The Permittees shall ensure that carbon loading operations are safe for field workers engaged in these operations.

V.B.1.iii. The Permittees shall ensure that the residence time for the solid carbon in the RF-2 is a minimum of 38 minutes at a shaft speed of 1 rotation per minute (rpm).

V.B.2. Permitted Wastes for Treatment in RF-2

V.B.2.i. The Permittees shall only treat in RF-2 spent carbon generated off-site containing hazardous waste identified in waste codes that are listed on Table II-2 in Module II of this permit.

V.B.2.ii. The Permittees may also treat in RF-2 spent activated carbon generated on-site as a result of the Permittees' treatment activities. The sources of on-site generated spent activated carbon shall be limited to the adsorbers that are used for control of gaseous emissions from the hazardous waste storage tanks (Tanks T-1, T-2, T-5, and T-6). [See Permit Attachment Appendix IV.]

V.B.3. Prohibited Wastes for Treatment in RF-2

V.B.3. The Permittees shall not accept, store or treat in RF-2 any hazardous waste other than as set forth in Permit Condition II.H.

V.C. OPERATION OF RF-2

V.C.1. General Operating Conditions

V.C.1.i. The Permittees shall only feed wastes at or below the feed rates shown in Table V-1. The Permittees are not authorized to treat or feed in the RF-2 spent activated carbon that contains hazardous constituents in concentrations exceeding permissible feed limits. The applicable permissible feed limits are set forth in Permit Condition Table V-1. Periodic Performance Demonstration Tests, performed in accordance with Permit Condition I.K.1., shall also be used to demonstrate compliance with each of the parameters set forth in Table V-1, Performance Limits.

V.C.1.ii. The Permittees are not authorized to treat or feed spent activated carbon that contains hazardous constituents in concentrations that would cause exceedances of permissible emission limits shown in Table V-1. In addition, for each of the parameters listed in Table V-1, the Permittees shall ensure that the permissible emission limit shown in Table V-1 is not exceeded. [See 40 CFR § 63.1209.]

Table V-1 - PERFORMANCE LIMITS

Parameter	**Emission Limits from 40 CFR § 63.1219**	**How to Ensure Emission Limits are Met[1]**
Low Volatile Metals[2]	Emission Limits 92 μg[3]/dscm[4]	Feed Rate Limit: 1.5 lbs/hr[5](12 hour rolling average)
Semi Volatile Metals[6]	Emission Limit: 230 μg/dscm	Feed Rate Limit: 0.1 lbs/hr (12 hour rolling average)
Carbon Monoxide	Emission Limit: 100 ppmdv[7] as corrected to 7% oxygen.	CEMS[8] at the stack.

[1] The Permittees must comply with 40 CFR § 63.1209 for monitoring for all Emission Limits below. See Permit Condition V.C.1.IX.
[2] Low volatile metal feed rate limits apply to arsenic, beryllium, and chromium, combined.
[3] μg – micrograms.
[4] dscm - dry standard cubic meter.
[5] lbs/hr – pounds per hour.
[6] Semi-volatile metal feed rate limits apply to lead and cadmium, combined.
[7] ppmdv - parts per million on a dry volumetric basis.
[8] CEMS – Continuous Emissions Monitoring System.

Parameter	**Emission Limits from 40 CFR § 63.1219**	**How to Ensure Emission Limits are Met[1]**
Total Hydrocarbons	Emission Limit: 10 ppmdv as corrected to 7% oxygen.	Performance Demonstration Tests (PDT).[9]
Chlorine/ Chloride	Emission Limits: 32 ppmdv	Feed Rate Limit: 60 lbs/hr (12 hour rolling average).
Mercury[10]	Emission Limit: 130 μg/dscm	Feed Rate Limit: 1.8E-3 lbs/hr (12 hour rolling average).
Particulate Matter	Emission Limits: 0.013 gr/dscf[11] corrected to 7 percent oxygen.	PDT
Dioxins and Furans	Emission Limit: 0.40 ng TEQ[12]/dscm, corrected to 7 percent oxygen.	PDT
Sulfur Oxides	Emission Limit: 30.01 tpy	Feed Rate Limit as set forth in revised WAP required pursuant to Permit Condition I.K.11.[13]
Nitrogen Oxides	Emission Limit: 22.22 tpy	Monitoring of the Natural Gas usage and PDT.

[9] The rate of emissions below the applicable emission limit will be demonstrated during the PDTs.
[10] The mercury feed rate to be calculated per 40 CFR § 264.1209(l)(1)(i)
[11] gr/dscf - grains per dry standard cubic foot
[12] TEQ – Toxic Equivalency, which means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.
[13] This limit will not be in effect until the WAP has been modified in accordance with Permit Condition I.K.11.

V.C.1.iii. Throughout operation, the Permittees shall conduct analysis in accordance with the Waste Analysis Plan, Permit Attachment C and Permit Attachment Appendix IV and Permit Condition II.C. to verify that waste fed to RF-2 is within the physical and chemical composition limits specified in this Permit. [See 40 CFR §§ 264.341(b) and 270.23.]

V.C.1.iv. The Permittees are required to inspect, safely operate, and properly monitor RF-2 in accordance with the conditions of this Permit to protect human health and the environment during operation, maintenance, start-up, shut-down and malfunction of RF-2.

V.C.1.v. The Permittees shall maintain RF-2 in accordance with the design plans, design specifications, stack layout drawing, and maintenance procedures contained in Permit Attachment B, Permit Attachment Appendices VI and X.

V.C.1.vi. The operating parameters are grouped into the following categories: Groups A1, A2, B and C; and are categorized as defined in EPA guidance document: Handbook: Guidance on Setting Permit Conditions and Reporting Trial Burn Results, (EPA/625/6-89/019), Table 2-1.

V.C.1.vi.a. Group A1 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A1 parameter limits were established from test operating data, and are used to ensure that system operating conditions are equal to or are more rigorous than those demonstrated during the test.

V.C.1.vi.b. Group A2 parameters shall be continuously monitored and recorded, and shall be interlocked with the automatic waste feed cutoff system. Group A2 parameter limits have been established based on regulatory requirements rather than on the test operating conditions, e.g., the maximum stack CO concentration.

V.C.1.vi.c. Group B parameters shall be continuously monitored and recorded, but are not required to be interlocked with the

automatic waste feed cutoff system. Operating records are required to ensure that established limits for these parameters are not exceeded. The Group B parameter limits were established based on the operation of the system during the performance test.

V.C.1.vi.d. Group C parameters shall be continuously monitored and recorded, but are not required to be interlocked with the automatic waste feed cutoff system. Group C parameter limits are based on manufacturer's recommendations, operational safety, and good operating practice considerations rather than on the test operating conditions, e.g., the minimum packed bed scrubber pressure differential.

V.C.1.vii. The following Table V-2 includes critical operating conditions. The term "AWFCO" in the comments column indicates that the operating parameter shall be interlocked with the automatic waste feed cutoff system. The Permittees shall comply with the Operating Limits in Table V-2.

Table V-2 - OPERATING LIMITS AND PARAMETERS

Control Parameters[14]	**Permit Limit**	**Comments**
GROUP A1 PARAMETERS		
Maximum spent carbon feed rate (lbs/hr)	3049	Block hour AWFCO
Minimum afterburner temperature (^{o}F)	1760	Hourly rolling average AWFCO
Minimum hearth #5 temperature (^{o}F)	1350	Hourly rolling average AWFCO
Minimum venturi scrubber pressure differential (in. w.c.)	18	Hourly rolling average AWFCO
Minimum quench/venturi scrubber total liquid flow rate (gpm)	75	Hourly rolling average AWFCO
Minimum packed bed scrubber pH	4.4	Hourly rolling average AWFCO

[14] Groups A1, A2, B, and C Parameters are explained in detail in Permit Condition V.C.1.vi.

Control Parameters[14]	Permit Limit	Comments
Minimum packed bed scrubber liquid flow rate (gpm)	63	Hourly rolling average AWFCO
Minimum wet scrubber blowdown flow rate (gpm)	58	Hourly rolling average AWFCO
Minimum WESP secondary voltage (kVDC)	22	Hourly rolling average AWFCO
Maximum stack gas flow rate (acfm)	9,550	Hourly rolling average AWFCO
GROUP A2 PARAMETERS		
Maximum stack gas carbon monoxide (ppmdv, @7% oxygen)[15]	100	Hourly rolling average AWFCO
GROUP B PARAMETERS		
Allowable hazardous constituents	All except dioxin wastes and TSCA PCBs	Class 1 POHC demonstrated to meet the 99.99% Destruction Removal Efficiency per Permit Attachment Appendix V
Maximum total chlorine and chloride feed rate (lbs/hr)	60	12-hour rolling average
Maximum mercury feed rate (lbs/hr)	1.8E-3[16]	12-hour rolling average
Maximum semivolatile metal (Cd + Pb) feed rate (lbs/hr)	1.0E-01	12-hour rolling average
Maximum low volatility metal (As + Be + Cr) feed rate (lbs/hr)	1.5E+00	12-hour rolling average
GROUP C PARAMETERS		
Minimum packed bed scrubber pressure differential (in. w.c.)	0.1	Hourly rolling average

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As = Arsenic
AWFCO = Automatic Waste Feed Cutoff
Be = Beryllium
Cd = Cadmium

[15] AWFCO interlock is not active during the daily continuous emission monitor CEM calibration period.
[16] 1.8E-3 = 1.8 x 10-3.
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Cr = Chromium
lbs/hr = pounds per hour
WESP = Wet electrostatic precipitator
Pb = Lead
POHC = Principal organic hazardous constituent
TSCA = Toxic Substances Control Act
PCBs = Polychlorinated Biphenyls
in. w.c. = inches of water column
kVDC = kilovolts Direct Current
gpm = gallons per minute
acfm = actual cubic feet per minute
ppmdv = parts per million on a dry volumetric basis in the stack gas
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V.C.1.viii. Waste shall not be fed to the RF-2 if any of the continuous monitoring instruments malfunction or otherwise fail to operate properly.

V.C.1.ix. All monitoring must be conducted in accordance with the requirements of 40 CFR § 63.1209 applicable to incinerators. [See 40 CFR § 63.1209.]

V.C.1.x. Failure to comply with the operating requirements in this Permit is failure to ensure compliance with the emission standards included in this Permit. [See 40 CFR § 63.1206(c)(1)(iii).]

V.C.2. Start Up, Shutdown, and Malfunction Plan

V.C.2.a. The Permittees shall implement the Start-up, Shutdown, and Malfunction Plan (SSMP) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events. The Permittees' SSMP is found in the Application in Appendix XXII and is incorporated into this Permit by this reference as Permit Attachment Appendix XXII.

V.C.2.b. The Permittees shall follow the requirements of the SSMP, whenever RF-2 is in non-compliance with the provisions of this Permit.

V.C.2.c. The Permittees shall submit to the Director a request for a Permit Modification in accordance with Permit Condition I.G.7., with an accompanying revised SSMP whenever they determine that one or more changes to the SSMP are appropriate.
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V.C.2.d. The Permittees must maintain a copy of the SSMP in the operating record at the Facility for the operating life of RF-2.

V.C.3. Monitoring Equipment

The Permittees shall maintain, calibrate, and operate monitoring equipment and record the data required by this Permit while processing hazardous waste.

V.C.4. Regulatory Compliance Instrumentation

V.C.4.i. The Permittees shall operate RF-2 and calibrate the RF-2-related instrumentation listed in Table V-3 pursuant to the parameters – including the frequencies -- set forth in Table V-3. Quality assurance and quality control shall be done in accordance with 40 CFR Part 60 QA/QC requirements.

TABLE V-3 - REGULATORY COMPLIANCE INSTRUMENTATION

Parameter	***Identification Number of Sensor/ Transmitter[17]***	***Instru-ment Type***	***Units***	***Range***	***Operating Point or Range***	***Calibration Frequency***	***Averaging***	***AWFCO (Y/N)***
Feed rate of spent activated carbon	WE/WT-427	Weigh cell	lbs/hr	0-6000	Less than or equal to 3049	Semi-annually	1-hr Block	Y
Total feed rate of mercury	Computer	Calcu-lated	lbs/hr	NA	0 – Less than or equal to 1.8E-03	NA	12-hr RA	N
Total feed rate of SVM	Computer	Calcu-lated	lbs/hr	NA	Less than or equal to 0 – 1.0	NA	12-hr RA	N

[17] Instrument identification from P&IDs.

Parameter	***Identification Number of Sensor/ Transmitter[17]***	***Instru-ment Type***	***Units***	***Range***	***Operating Point or Range***	***Calibration Frequency***	***Averaging***	***AWFCO (Y/N)***
Total feed rate of LVM	Computer	Calcu-lated	lbs/hr	NA	Less than or equal to 0 – Less than or equal to 1.5	NA	12-hr RA	N
Afterburner gas temperature	TE-464A/B	Thermo-couple	^{o}F	0-2400	Greater than or equal to 1760	Semi-annually	1-hr RA	Y
Venturi scrubber pressure differential	PDIT-556	Pressure sensor	in. w.c.	0-50	Greater than or equal to 18	Annually	1-hr RA	Y
Venturi / Quench scrubber recycle liquid flow rate (Total Flow)	FI-562 (Total of FE/FIT-553, 554, & 555)	Sum of Magnetic flow meters (Dynac Function)	gpm	0-656	Greater than or equal to 75	Annually	1-hr RA	Y
Packed bed scrubber pH	AE/AIT-590	pH probe	pH	0-14	Greater than or equal to 4.4	Quarterly	1-hr RA	Y
Packed bed scrubber recycle liquid flow rate	FE/FIT-552	Magnetic flow meter	gpm	0-200	Greater than 63	Annually	1-hr RA	Y

Parameter	***Identification Number of Sensor/ Transmitter[17]***	***Instru-ment Type***	***Units***	***Range***	***Operating Point or Range***	***Calibration Frequency***	***Averaging***	***AWFCO (Y/N)***
Packed bed scrubber pressure differential	PDIT-560	Pressure sensors	in. w.c.	0-10	Greater than 0.1	Annually	1-hr RA	N
Scrubber blowdown flow rate	FE/FIT-605	Magnetic flow meter	gpm	0-691	Greater than 58	Annually	1-hr RA	Y
WESP secondary DC voltage	EI-558	Voltmeter	kV DC	0-80	14-22	NA	1-hr RA	Y
Stack gas flow rate	FE/FIT-700	Ultrasonic meter	acfm	Not avail-able	Less than or equal to 9,550	Semi-annually	1-hr RA	Y
Stack gas carbon monoxide[18]	AE-575	Non-dispersive infrared CEMS	ppmdv @7% O_2	0-100 0-1000	Less than 100	Daily/ Quarterly/ Annually	1-hr RA	Y
Stack gas oxygen[19]	AE-576	Para-magnetic CEMS	vol%, dry	0-25	7	Daily/ Quarterly/ Annually	None	N
Weigh belt						Calibrated Semi-Annually		

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RA = Rolling average as defined in 40 CFR § 63.1209(a)(6).
AWFCO = Automatic Waste Feed Cut Off.

[18] Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.
[19] Continuous Emissions Monitoring System (CEMS) calibrations shall include daily zero and span check, quarterly cylinder gas audit, and annual performance specification test.
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SVM = Semi-Volatile Metals
LVM = Low-Volatile Metals
in. w.c. = inches of water column
kVDC = kilovolts Direct Current
gpm = gallons per minute
acfm = actual cubic feet per minute
ppmdv @ 7% O_2 = parts per million on a dry volumetric basis in the stack gas as corrected to 7% oxygen
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V.C.4.ii. The Permittees must keep the necessary parts for routine repairs of the continuous monitoring system (CMS) equipment, including the CEMS equipment, readily available.

V.C.4.iii. The Permittees shall conduct the CMS performance and test protocols, including all record keeping and reporting, set forth in 40 CFR § 63.8.

V.C.5. Automated Waste Feed Cutoff Requirements

V.C.5.i. The Permittees shall operate RF-2 with a functioning automatic waste feed cutoff system (AWFCO) that immediately and automatically cuts off the hazardous waste feed to RF-2 in accordance with 40 CFR § 63.1206(c)(3). [See 40 CFR § 63.1206(c)(3).]

V.C.5.ii. The Permittees shall automatically cut off the hazardous waste feed to RF-2 if any of the following occur:

V.C.5.ii.a. Operating limits for Groups A1 and A2 parameters listed in Table V-2 or emission limits listed in Table V-4 are not met.

V.C.5.ii.b. When the span value of any CMS detector, except a CEMS, is met or exceeded; [See 40 CFR § 63.1206(c)(3)(i)(B).]

[Note: Parameter CMSs are process instruments that continuously monitor and record parameter data from the operation of the carbon reactivation process. The instruments consist of weigh belts, flow meters, pressure transducers, thermocouples and other devices that collect process information on key regulatory parameters.]

V.C.5.ii.c. Upon malfunction of a CMS; [See 40 CFR § 63.1206(c)(3)(i)(C).] or
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V.C.5.ii.d. When any component of the AWFCO system fails. [See 40 CFR § 63.1206(c)(3) (i)(D).]

V.C.5.iii. During an AWFCO, the Permittees must continue to duct combustion gases to the air pollution control equipment while hazardous waste remains in RF-2 (*i.e.*, if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated). After an AWFCO, the remainder of the system shall continue to operate until residence time has transpired to ensure all waste remaining in the system has been processed with the APCE still operational. [See 40 CFR § 63.1206(c)(3)(ii).]

V.C.5.iv. In the event of an AWFCO, the Permittees shall implement the SSMP and operate RF-2 under the provisions of the SSMP. [See 40 CFR §§ 63.1206(c)(2) and (c)(3).]

V.C.5.v. During malfunctions, the Permittees shall comply with the AWFCO requirements of the SSMP and 40 CFR § 63.1206(c)(3), except for sections 63.1206(c)(3)(v) and (vi). [See 40 CFR § 63.1206(c)(2)(v)(A)*(1)*.]

V.C.5.v.a. If the Permittees fail to meet an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2, the AWFCO system must immediately and automatically cut off the hazardous waste feed. If the malfunction itself prevents immediate and automatic cut off of the hazardous waste feed, however, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(2)(v)(A)*(1)*.]

V.C.5.v.b.(1). The AWFCO requirements continue to apply during a malfunction. If an exceedance of an emission standard listed in Table V-4 or a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees shall undertake the corrective measures prescribed in the SSMP. [See 40 CFR § 63.1206(c)(2)(v)(A)*(2)*.]

V.C.5.v.b.(2). For the purposes of determining the duration of an exceedance as a result of a malfunction (including power outages), the exceedance will begin once an emission standard or operating limit is exceeded

while spent carbon is in RF-2. The exceedance will end once the spent activated carbon has cleared RF-2 or once the emissions and operating parameters are reestablished within their respective permit limits, whichever occurs sooner. Thus one incident may constitute one exceedance, which may include multiple emissions or operating parameters not being met.

V.C.5.v.c. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (*i.e.,* when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittees must comply with the requirements of 40 CFR § 63.1206(c)(2)(v)(A)*(3)* as follows:

V.C.5.v.c.(1). Within 45 days of the 10th exceedance, the Permittees must complete an investigation of the cause of each exceedance and evaluation. The evaluation is to include approaches to minimize the frequency, duration, and severity of each exceedance, and revise the SSMP as warranted by the evaluation to minimize the frequency, duration, and severity of such exceedances. [See 40 CFR § 63.1206(c)(2)(v)(A)*(3)(i).]*

V.C.5.v.c.(2). The Permittees must record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the SSMP in an excess emissions report that meets the requirements of 40 CFR § 63.10(e)(3) but need only submitted to the Director for approval in accordance with Permit Condition V.C.5.v.c.(3) after each 10th exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)*(3)(ii).*]

V.C.5.v.c.(3). The Permittees must submit to the Director for approval in accordance with Permit Condition I.G.5. an excess emissions report that otherwise meets the requirements of 40 CFR § 63.10(e)(3) within 60 days following each 10th exceedance as described in Permit Condition V.C.5.v.c.(1). [See 40 CFR § 63.1206(c)(2)(v)(A)*(3)(ii).*]

V.C.5.v.d. If, after any AWFCO, there is an exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (*i.e.*, whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittees must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the Facility's operating record. [See 40 CFR§ 63.1206(c)(3)(v).]

V.C.5.vi. The Permittees shall not feed waste carbon during startups and shutdowns. [See 40 CFR § 63.1206(c)(2)(v)(B).]

V.C.5.vii. Restarting Waste Feed

The Permittees must not start feeding waste until the operating parameters specified in Table V-2 and the CEMS have returned to within the operating limits. [See 40 CFR § 63.1206(c)(3)(iii).]

V.C.5.viii. Failure of an AWFCO

If the AWFCO system fails to automatically and immediately cut off the flow of hazardous waste upon exceedance of a parameter in Table V-2 required to be interlocked with the AWFCO system, or when an exceedance of a Group A-1 or Group A-2 parameter specified in Table V-2 occurs, the Permittees must cease feeding hazardous waste as quickly as possible. [See 40 CFR § 63.1206(c)(3)(iv).]

V.C.5.ix. Testing AWFCO

The Permittees must test the AWFCO system and associated alarms at least monthly to verify operability. The Permittees must document and record AWFCO operability test procedures and results in the Facility's

operating record. [See 40 CFR §§ 63.1206(c)(3)(vii) and 264.347(c) and (d).]

V.C.6. Burning of Natural Gas

V.C.6.i. RF-2 (including all its APCE and ancillary equipment) shall be powered by natural gas only. Alternative fuel cannot be used unless this permit is modified. Any such modification request may require additional performance testing and/or an updated risk analysis.

V.C.6.ii. The amount of natural gas burned in RF-2 (including all its APCE and ancillary equipment) shall be recorded monthly in millions of standard cubic feet (MMSCF) and such records shall be maintained in the operating record.

V.C.6.iii. Each month, the Permittees shall calculate and record in the operating record the 12-month rolling sum in tons per year of nitrogen oxides (NOx) emissions from RF-2 (including all its APCE and ancillary equipment), based on: (1) the amount of natural gas burned in MMSCF; and (2) the emission factor in pounds per MMSCF, based on the most recent Performance Demonstration Test.

V.D. AIR POLLUTION CONTROL EQUIPMENT

V.D.1. The Permittees shall not exceed the Performance and Emission Limits specified in Table V-4.

TABLE V-4 - PERFORMANCE AND EMISSION LIMITS FOR RF-2

Parameter	Purpose	Limit[20]
Destruction and Removal Efficiency (DRE)	To limit organic emissions	99.99%

[20] All values except DRE are corrected to 7% oxygen in the stack gas.

Parameter	Purpose	Limit[20]
Particulate Matter (PM)	To limit particulate matter emissions	0.013 gr/dscf[21]
HCl/Chlorine	To limit HCl/chlorine combined emissions	32 ppmdv[22]
SO_2[23]	To limit SO_2 emissions	30.01 tons per consecutive 12 month period
NO_2[24]	To limit NO_2 emissions	22.22 tons per consecutive 12 month period
Mercury	To limit mercury emissions	130 μg/dscm[25]
Semi volatile metals[26]	To limit Pb and Cd emissions	230 μg/dscm
Low volatile metals[27]	To limit As, Be and Cr emissions	92 μg/dscm
Dioxin and furans	To limit dioxin and furan emissions	0.4 ηg TEQ/dscm[28][29]
Carbon monoxide[30]	To ensure good combustion	100 ppmdv
Total hydrocarbons	To limit organic emissions	10 ppmdv

V.D.2. The Permittees shall continuously operate, and maintain the hearth, afterburner, Quench (Gas Cooling)/Venturi Scrubber (SC-11), Caustic Packed Bed Scrubber (SC-12), Wet Electrostatic Precipitator (W-11), Induced Draft Fan, and Stack.

[21] "gr/dscf" is grains per dry standard cubic foot of stack gas.
[22] "ppmdv" is parts per million on a dry volumetric basis in the stack gas.
[23] Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.
[24] Based on the Tribal New Source Rule registration by Evoqua dated Aug 2012.
[25] "μg/dscm" is micrograms per dry standard cubic meter of stack gas.
[26] Semi-volatile metals are lead and cadmium.
[27] Low volatile metals are arsenic, beryllium and chromium.
[28] "ηgTEQ/dscm" is nanograms TEQ per dry standard cubic meter.
[29] TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.
[30] 100 ppm by volume on a dry gas basis using a one hour rolling average.

V.D.3. The Permittees shall perform any necessary operations and air pollution control equipment maintenance to minimize emissions so that emissions are at or below the emission limits specified in this Permit.

V.D.4. The Permittees shall, to the extent practicable, maintain and operate equipment in a manner consistent with good air pollution control practice for minimizing emissions. [See 40 CFR § 61.12(c).]

V.D.5. The Permittees shall maintain the APCE in accordance with the design plans and specifications contained in Permit Attachment Appendices VI and X.

V.E. FUGITIVE EMISSIONS CONTROLS

V.E.1. The Permittees shall control fugitive emissions from the combustion zone in accordance with 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d). [See 40 CFR §§ 61.348(e), 63.1206(c)(5), and 264.345(d).]

V.E.2. The Permittees shall ensure that fugitive emissions from process units and ancillary components (tanks, furnace, APCEs, and piping) do not exceed 500 ppmv (parts per million by volume) of VOCs above background in accordance with the procedures spelled out in 40 CFR § 61.355(h). [See 40 CFR § 61.355(h), 63.1206(c)(5), and 40 CFR § 264.1082(c)(1).]

V.F. INSPECTION REQUIREMENTS

V.F.1. The Permittees shall inspect RF-2 in accordance with the Inspection Schedule and Checklist, Permit Attachment Section F, Permit Attachment Appendix XII, and Permit Condition II.E.

V.F.2. The Permittees shall thoroughly, visually inspect RF-2 at least daily, for leaks, spills, fugitive emissions, and signs of tampering. [See 40 CFR § 264.347(b).]

V.F.3. The Permittees shall thoroughly, visually inspect the instrumentation for out-of-tolerance monitored and/or recorded operational data.

V.F.4. Upon request of the Director, the Permittees shall perform sampling and analysis of the waste and exhaust emissions to verify that the operating requirements established in this Permit are being met.

V.G. RECORDKEEPING AND REPORTING

V.G.1. The monitoring and inspection data required by this Module V must be recorded and the records must be placed in the operating record required by Permit Condition II.M.1.i. and maintained in the operating record for five years. [See 40 CFR §§ 63.10, 63.1211, and 264.347(d).]

V.G.2. The Permittees shall record in the operating record for this Permit the date and time of all automatic waste feed shut-offs, including the triggering parameters, reason for the shut-off, and corrective actions taken. The Permitees shall also record all failures of the automatic waste feed shut-offs to function properly and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]

V.G.3. The Permittees shall record in the operating record for this Permit the date and time of all shutdowns or malfunctions, the reason(s) for the shut-down or malfunction, and corrective actions taken. [See 40 CFR §§ 63.10 and 63.1211.]

V.G.4. In addition to the excess emissions report(s) required by Permit Condition V.C.5.v.c., if, despite the requirement to comply with the SSMP, an action taken by the Permittees during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the SSMP and there is an exceedance of any applicable emission limitation in the relevant emission standard, then the Permittees must record the actions taken for that event and must report such actions to the Director within 2 working days after commencing actions inconsistent with the plan, followed by a letter to the Director within 7 working days after the end of the event, in accordance with 40 CFR §63.10(d)(5). [See 40 CFR §§ 63.6(e)(3)(iv) and 63.10(d)(5).]

V.G.5. The Permittees shall maintain in the operating record for the Facility required by Permit Condition II.M.1. the site specific CMS quality control performance

evaluation test plan procedures in accordance with 40 CFR § 63.8(d). [See 40 CFR § 63.8(d).]

V.H. CLOSURE

V.H.1. At closure the owner or operator must remove all hazardous waste and hazardous waste residues (including, but not limited to, ash, scrubber waters, and scrubber sludges) from RF-2. [See 40 CFR § 264.351.]

V.H.2. The Permittees shall follow the procedures in Permit Attachment Section I and in the RCRA Facility Closure Plan for the Closure of RF-2 in Permit Attachment Appendices XV and XVII.

V.H.3. The Permittees shall follow the procedures in Permit Attachment Section I and in the Closure Plan for the Closure of RF-1 in Permit Attachment Appendices XVI and XVII. The Permittees shall initiate closure of RF-1 in accordance with the Closure Schedule contained in the RF-1 Closure Plan contained in Permit Attachment Appendix XVI and the Compliance Schedule set forth in Permit Condition I.K. [See 40 CFR § 264.112(d).]

V.H.4. The Permittees shall submit a post-closure plan with a schedule to EPA for approval if, after implementation of either the Closure Plan for Closure of RF-1 or the Closure Plan for Closure of RF-2, soil contamination is present and the Permittees are unable to adequately remediate that contamination. Upon approval by EPA, the Permittees shall implement the Post-Closure Plan as approved.

V.I. ADDITIONAL INVESTIGATIONS

Upon request by the Director, sampling and analysis of the waste, soil and/or groundwater at or around the Facility, and exhaust emissions must be conducted to verify that the operating requirements established in this Permit achieve the performance standards set forth in this Permit. A report shall be submitted to the Director for approval in accordance with Permit Condition I.G.5. within the time frame specified in the Director's request. [See, e.g., 40 CFR § 264.347(a)(3).]

MODULE VI
CORRECTIVE ACTION

VI.A. Standard Conditions

VI.A.1. The Permittees must take corrective action as necessary to protect human health and the environment from all releases of hazardous waste and/or constituents from any Hazardous Waste Management Unit (HWMU), Solid Waste Management Unit (SWMU) and/or Area of Concern (AOC) at the Facility, regardless of the time at which waste was placed in such unit or area, in accordance with §3004(u) of RCRA, 42 USC Section 6924(u), 40 CFR §§ 264.90(a) and 264.101. [See RCRA Section 3004(u) and 40 CFR §§ 264.90(a) and 264.101. See also Permit Attachment Section J and the Final RCRA Facility Assessment (RFA), incorporated herein as Permit Attachment RFA. To the extent that there are any discrepancies between Section J and the RFA, the language in the RFA shall control.]

VI.A.2. The Permittees must take corrective action beyond the facility property boundary where necessary to protect human health and the environment, in accordance with §3004(v) of RCRA, 42 USC Section 6924(v), and 40 CFR §264.101. [See 40 CFR §264.101.]

VI.A.3. Any noncompliance with approved plans, schedules or reports required in accordance with this Permit shall be deemed noncompliance with this Permit.

VI.A.4. If the Director determines that further corrective action beyond the requirements of this Permit is warranted, then the Director may modify this Permit according to the permit modification processes under 40 CFR § 270.41. [See 40 CFR §§ 264.100(e)(2) and 270.41. See also Permit Condition I.B.1.]

VI.A.5. All raw data and reports, including inspection reports, laboratory reports, drilling logs, geological and hydrogeological investigations, bench-scale or pilot-scale data, laboratory data and other supporting information gathered or generated during activities undertaken pursuant to this Permit, including any reissued permits, shall be provided at the request of the Director.

VI.A.6. Failure to timely submit the information required in this Permit, or falsification of any submitted information, is grounds for termination of this permit in accordance with 40 CFR §270.43.

VI.A.7. All work performed pursuant to this Corrective Action Module shall be under the direction and supervision of qualified personnel. At least forty-five (45) days prior to initiating any work pursuant to this Module, the Permittees shall notify the Director in writing of the following:

VI.A.7.a. The names, titles, and qualifications of the personnel, including contractors, subcontractors, consultants and laboratories, to be used in carrying out such work; and

VI.A.7.b. The name, address, phone number, electronic mail address and qualifications of the Corrective Action Project Coordinator.

VI.A.7.b.i. The Permittees have the right to change their Corrective Action Project Coordinator. Notification of a change in the Permittees' Corrective Action Project Coordinator must be provided to EPA in writing at least ten (10) days prior to the change.

VI.A.7.b.ii. EPA may disapprove of Permittees' Corrective Action Project Coordinator (original or replacement) at any time based upon the person's qualifications and ability to effectively perform the role. The qualifications of the Permittees' Corrective Action Project Coordinator (original or replacement) shall be subject to EPA's review, for verification that such person meets minimum technical background and experience requirements. All persons under the direction and supervision of the Permittees' Corrective Action Project Coordinator must possess all necessary professional licenses required by federal law and any applicable state or tribal law. EPA's disapproval of the Permittees' Corrective Action Project Coordinator is subject to review in accordance with the Informal Dispute Resolution provisions set forth in Permit Condition I.L.

VI.A.7.c. In those circumstances where Permittees must take action in less than the forty-five (45) day period referenced in Permit Condition VI.A.7., the information required by Permit Conditions VI.A.7.a. and VI.A.7.b. must be provided to EPA as soon as practicable. (See, *e.g.*, Permit Condition VI.E.1.)

VI.A.8. Any activities performed pursuant to this Corrective Action Module shall be conducted in compliance with this Permit, and are subject to EPA approval as set forth herein. The Permittees should perform Corrective Action consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, the following:

- "RCRA Corrective Action Plan" (OSWER Directive 9902.3-2A, May 1994);
- "Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action" (EPA, EPA530-R-04-030, April 2004);
- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA, SW-846), available at http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm;
- Advance Notice of Proposed Rulemaking, "Corrective Action for Releases from Solid Waste Management Units at Hazardous Waste management Facilities" (EPA, 61 FR 19432 dated May 1, 1996), available at http://www.epa.gov/docs/fedrgstr/EPA-WAST/1996/May/Day-01/pr-547.pdf;
- "RCRA Public Participation Manual" (EPA, EPA/530/R-96/007, 1996), available at http://www.epa.gov/epawaste/hazard/tsd/permit/pubpart/manual.htm;
- "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report" (EPA, EPA/600/R-08/003, January 2008), available at http://www.epa.gov/ada/pbs/reports/600R08003.html; and
- "RCRA Groundwater Monitoring Technical Enforcement Guidance Document" (OSWER Directive 9950.1, September 1986).

VI.B. Reporting Requirements

VI.B.1. When requested by the Director, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. signed and certified corrective action progress reports on a semi-annual basis in accordance with the deadlines specified in the Director's request. Such corrective action progress reports shall contain:

VI.B.1.a. A discussion and summary of all corrective action-related activities undertaken during the time period;

VI.B.1.b. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify these problems;

VI.B.1.c. Summaries of all findings made during the time period including summaries of laboratory data; and

VI.B.1.d. Projected work for the next reporting period.

VI.B.2. The Permittees shall maintain copies of other corrective action reports (e.g. inspection reports); geological and hydrogeological investigations; records of groundwater monitoring wells, including boring logs, and associated groundwater surface elevations; and all laboratory data, including raw data, for the active life of the Facility, and shall make them available to the Director upon request.

VI.B.3. The Director may require the Permittees to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information.

VI.C. Results of the RCRA Facility Assessment (RFA)

VI.C.1. The results and recommendations of the RCRA Facility Assessment can be found in the Final Permit Attachment RFA dated September 2016.

VI.C.2. The HWMUs, SWMUs, and AOCs are identified in Tables VI-1, VI-2, and VI-3.

VI.D. Newly-Identified, Newly-Discovered, or Newly-Created AOCs, SWMUs and/or HWMUs

VI.D.1.a. The Permittees shall notify the Director in writing of any newly-identified, newly-discovered, or newly created AOC(s), SWMU(s) and/or HWMU(s). This initial notice shall be provided no later than fifteen (15) calendar days after discovery of the newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU.

VI.D.1.b. No later than 60 days after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2, and/or VI-3 and Permit Attachment Section J, as appropriate, to add the new AOC(s), SWMU(s), and/or HWMU(s) to the table(s).

VI.D.2. Within ninety (90) days after the after identifying, discovering or creating any new AOC(s), SWMU(s), and/or HWMU(s), the Permittees shall submit an Assessment Report for any newly-identified, newly-discovered or newly created AOC, SWMU and/or HWMU to the Director for approval in accordance with Permit Condition I.G.5. At a minimum, the Report shall provide the following information for each newly-identified, newly-discovered, or newly-created AOC, SWMU and/or HWMU:

VI.D.2.a. The location of each such AOC, SWMU and/or HWMU in relation to other AOCs, SWMUs, HWMUs, building numbers, or other descriptive landmarks;

VI.D.2.b. The type and function of the AOC, SWMU and/or HWMU;

VI.D.2.c. The general dimensions, capacities, and structural description of the AOC, SWMU and/or HWMU (supply all available drawings);

VI.D.2.d. The period during which the AOC, SWMU and/or HWMU was operated;

VI.D.2.e. Waste characterization information for all wastes that have been or are being managed at the AOC, SWMU and/or HWMU;

VI.D.2.f. A description of any release (or suspected release) of hazardous waste and/or constituents originating from the AOC, SWMU, and/or HWMU including planned or unplanned releases to the air and any other media. Include information on the date of release, type of hazardous waste and/or constituents, quantity released, nature of the release, extent of release migration, and cause of release (e.g., overflow, broken pipe, tank leak). Also provide any available data which characterizes the nature and extent of environmental contamination, including the results of air, soil and/or groundwater sampling and analysis efforts. Also submit any existing monitoring information that shows that a release of hazardous waste and/or constituents has not occurred or is not occurring; and

VI.D.2.g. Whether or not any further Permit Modification(s) to incorporate additional information about the newly-discovered AOC, SWMU and/or HWMU(s) into the Permit is appropriate. The Permittees shall submit a Permit Modification request in accordance with Permit Condition I.G.8. if the approved Assessment Report determines that such modification is warranted.

VI.D.3. Based on the results of the approved Assessment Report, the Director will determine whether there is a need for further investigations at specific unit(s) or areas covered in the Assessment Report. If the Director determines that such investigations are needed, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

VI.E. Newly-Discovered Releases

VI.E.1. The Permittees shall notify the Director, in writing, of any newly-discovered spills or releases of hazardous waste. This notification shall be submitted in two parts as set forth in Permit Conditions VI.E.1.a. and VI.E.1.b. Releases that are less than or equal to a quantity of one (1) pound and immediately contained and cleaned up are not subject to this Permit Condition VI.E.1. The Permittees shall investigate and, if necessary, remediate the discovered spill(s) or release(s). Such spills or releases may be from newly-identified or newly-created AOCs, SWMUs and/or HWMUs, from AOCs, SWMUs and/or HWMUs at which the Director had previously determined that no further investigation was necessary, or from AOCs, SWMUs and/or HWMUs investigated as part of this Permit or otherwise identified in Tables VI-1, VI-2, or VI-3.

VI.E.1.a. First, within fifteen (15) calendar days of discovery of the release, the Permittees shall submit in writing an initial notification of the discovery. This notification shall alert the Director to the magnitude of the threat to human health and/or the environment.

VI.E.1.b. Second, within sixty (60) days of discovery of the release, the Permittees must submit a written report. The report shall discuss the Permittees' efforts to investigate and/or remediate the discovered release and shall specifically include:

- the concentrations and estimated quantities of any hazardous waste and/or constituents released;
- the known, or expected, pathway(s) through which the contamination is migrating (or may migrate), and the extent, rate, and direction of that migration;
- the projected fate and transport of the release;

- the likely exposure pathway(s) for potential receptors, and the consequences of exposure to these receptors; and
- an outline of proposed Interim Corrective Measures to control the release, as well as a schedule for implementing the Interim Corrective Measures. The schedule must be justified by a discussion of possible consequences arising from any delay in implementing Interim Corrective Measures.

VI.E.2. Within sixty (60) days of discovery of a spill or release, the Permittees shall initiate a permit modification in accordance with Permit Condition I.G.7. and 40 CFR § 270.42 to update Tables VI-1, VI-2 and/or VI-3 and Permit Attachment Section J, as appropriate, to add the spill or release to the table(s). The Permittees shall include the hazardous waste constituents that were released and the actions taken to clean up or mitigate the spill or release in the revised Permit Attachment Section J.

VI.E.3. Within ninety (90) days of discovery of a release, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, the Permittees shall submit a request for a permit modification to investigate and perform additional Interim Corrective Measures in accordance with Permit Condition I.G.8.

VI.E.4. If the approved Interim Corrective Measures Report concludes that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

VI.F. RCRA Facility Investigation (RFI) Work Plan

VI.F.1. If, under Permit Conditions VI.D.3. or VI.E.4., the Director determines that an RFI is necessary for any newly-discovered or newly-created AOC, SWMU or HWMU or for a newly discovered release, or to further investigate an existing AOC, SWMU, or HWMU, the Permittees shall submit an RFI Work Plan, within the time period specified by the Director, to the Director for approval in accordance with Permit Condition I.G.5.

VI.F.2. The RFI Work Plan must identify the AOCs, SWMUs, and/or HWMUs, releases of hazardous waste and/or constituents, and media of concern which require corrective action. The RFI Work Plan shall describe the objectives of the investigation and the overall technical and analytical approach to completing all actions necessary to characterize the nature, direction, rate, movement, and concentration of releases of hazardous waste and/or constituents from specific AOCs, SWMUs, HWMUs or groups of AOCs, SWMUs, or HWMUs and their actual or potential receptors. The RFI Work Plan shall detail all proposed activities and procedures to be conducted at the area and/or unit, the schedule for implementing and completing such investigations, an outline of the RFI Report required in Permit Condition VI.G.1., and the overall management of the RFI. The RFI Work Plan should be consistent with good scientific principles. For example, the Permittees should consider taking into account screening levels consistent with the EPA's health and ecological based guidance effective at the time of implementation, and EPA's current corrective action guidance, including RCRA Facility Investigation (RFI) Guidance, OSWER Directive 9502.00-6C, dated May 1989.

VI.F.3. The RFI Work Plan shall discuss sampling and data collection quality assurance and data management procedures, including formats for documenting and tracking data and other results of investigations, and health and safety procedures for conducting the field work.

VI.F.4. The Director may review for approval as part of the RFI Work Plan any plans, reports or other material developed pursuant to Permit Conditions VI.D. and/or VI.E.

VI.G. <u>RCRA Facility Investigation (RFI) Final Report</u>

VI.G.1. The Permittees shall develop and submit an RFI Final Report if the Director determines that an RFI is necessary as described in VI.F.1. The Permittees should conduct the RCRA Facility Investigation and prepare the RFI Final Report consistent with good scientific principles. For example, the Permittees should consider taking into account appropriate EPA guidance including, but not limited to, EPA's RCRA Facility Investigation Guidance, OSWER Directive 9502.00-6C, dated May 1989.

VI.G.2. Within the time period specified in the schedule included in the approved RFI Work Plan, the Permittees shall submit an RFI Final Report to the Director for approval in accordance with Permit Condition I.G.5.

. **VI.G.3.** The RFI Final Report shall describe the procedures, methods, and results of all facility investigations of AOCs, SWMUs and/or HWMUs and their releases, including information on the type and extent of contamination at the Facility, sources and migration pathways, and actual or potential receptors. The RFI Final Report shall present all information necessary to support further corrective action decisions at the area(s) and/or unit(s).

VI.G.4. The RFI Final Report shall also include the Permittees' recommendations, if any, regarding any appropriate modifications to the conditions of this Permit, based on the results of the RFI in accordance with Permit Condition I.G.8. and 40 CFR Part 270.

VI.H. Interim Corrective Measures Implementation at the Direction of EPA

VI.H.1. If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present a threat to human health or the environment, the Director will notify the Permittees that they must submit to the Director, for approval in accordance with Permit Condition I.G.5., an Interim Corrective Measures Work Plan, for conducting Interim Corrective Measures designed to minimize the threat to human health and the environment. The Director will provide direction to the Permittees regarding the appropriate time frame for submittal of such Interim Corrective Measures Work Plan. Implementation by the Permittees of treatment or containment activities during "immediate response," as defined in 40 CFR § 264.1(g)(2), to a discharge of hazardous waste and/or constituents, or an imminent and substantial threat of a discharge of hazardous waste and/or constituents, or a discharge of material which, when discharged, becomes a hazardous waste, is not subject to this Permit. Actions taken to address the discharge after the immediate response is completed are subject to this Permit.

VI.H.1.a. The Interim Corrective Measures Work Plan shall include a schedule for implementation of Interim Corrective Measures and the submittal of an Interim Corrective Measures Report.

VI.H.2. Except as set forth in Permit Condition VI.H.5, the Director's decision to require the submittal of an Interim Corrective Measures Work Plan is subject to the dispute resolution procedures set forth in Permit Condition I.L. The following factors may be considered by the Director in determining the need for additional Interim Corrective Measures:

VI.H.2.a. Time required to develop and implement a final remedy;

VI.H.2.b. Actual and potential exposure of human and environmental receptors;

VI.H.2.c. Actual and potential contamination of drinking water supplies and sensitive ecosystems;

VI.H.2.d. Potential for further degradation of the medium absent the additional Interim Corrective Measures;

VI.H.2.e. Presence of hazardous waste in containers or tanks that may pose a threat of release;

VI.H.2.f. Presence and concentration of hazardous waste and/or constituents in soils, ground water, surface water, or air;

VI.H.2.g. Weather conditions that may affect the current levels of contamination or potential for exposure;

VI.H.2.h. Risks of fire, explosion, or accident; and

VI.H.2.i. Other situations that may pose a threat to human health or the environment.

VI.H.3. Upon the Director's approval of the Interim Corrective Measures Work Plan, the Permittees shall implement the Interim Corrective Measures according to the approved schedule.

VI.H.4. Within the time period set forth in the schedule in the approved Interim Corrective Measures Work Plan, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5. a Report describing the Interim Corrective Measures activities taken to date and whether or not additional investigation or implementation of corrective measures are warranted. This Report shall include the reporting requirements specified in Permit Condition VI.B. If the approved Interim Corrective Measures Report concludes that additional investigation or corrective measures are required, and/or that there is a need for further investigations or implementation of corrective measures, the Director will require the Permittees to prepare a RCRA Facility Investigation (RFI) Work Plan in accordance with Permit Condition VI.F.

VI.H.5. If, at any time, the Director determines that a release or potential release of hazardous waste and/or constituents at the Facility poses or may present an imminent or emergency threat to human health or the environment, the Director will notify the Permittees that they must conduct Emergency Interim Corrective Measures as instructed by the Director. Such Emergency Interim Corrective Measures shall be limited to that necessary to address or resolve the urgency associated with and/or emergency nature of any such threat to human health or the environment. The Director's decision to require such Emergency Interim Corrective Measures may be subject to the informal dispute resolution procedures of Permit Condition I.L., but the Permittees shall implement such Emergency Interim Corrective Measures, as instructed by the Director, simultaneously during any such invocation of informal dispute resolution under this Permit.

VI.I. Corrective Measures Study

VI.I.1. If the Director has reason to believe that an AOC, SWMU and/or HWMU has released concentrations of hazardous constituents in excess of the EPA's current health- and ecological-based levels, or if the Director determines that contaminants present at levels below the EPA's current health-based levels pose a threat to human health or the environment given site-specific exposure conditions, the Director may require a Corrective Measures Study (CMS) and, if so, will notify the Permittees in writing. This notice will identify the hazardous constituents(s) which have exceeded action levels as well as those which have been determined to present a potential threat to human health or the environment given site-specific exposure conditions.

VI.I.2. No later than sixty (60) calendar days after the Permittees have received notification from the Director, under Permit Condition VI.I.1., of the need for a CMS, the Permittees shall submit to the Director for approval in accordance with Permit Condition I.G.5., a Work Plan, with a schedule, for conducting a CMS. Upon the Director's approval of the CMS Work Plan, the Permittees shall implement the CMS according to the approved schedule. The CMS should be consistent with the EPA's guidance.

VI.I.3. The Permittees shall submit a CMS Final Report to the Director for approval in accordance with Permit Condition I.G.5. and according to the schedule approved by the Director pursuant to Permit Condition VI.I.2. The CMS Final Report shall summarize the results of the investigations for each remedy, and of any bench-scale

or pilot tests conducted. The CMS Final Report must include an evaluation of each remedial alternative, and a proposal for corrective measures implementation. The CMS Final Report shall contain adequate information to support the Director in the remedy selection decision-making process, described in Permit Condition VI.J.

VI.J. Remedy Selection

If, based on the results contained in the RFI Final Report, CMS Final Report, or any further evaluations of additional remedies, the Director determines that it is appropriate to select a corrective action remedy for the facility, the Director will propose to select a remedy that will: (1) be protective of human health and the environment; (2) meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; (3) control the source(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat or potential threat to human health and the environment; and (4) meet all applicable waste management requirements.

VI.K. Permit Modification

Based on information the Permittees submit in the RFI Final Report, the CMS Final Report, or other information, the Permittees or the Director may initiate a modification to this Permit for selection and implementation of the remedy, pursuant to 40 CFR §§ 270.41 or 270.42, and/or to create or make changes to a Corrective Action Schedule of Compliance for this Permit. Any modification relating to selection and implementation of a remedy may include conditions that require submittal by the Permittees of corrective measures design, implementation, and monitoring plans.

VI.L. No Further Action

VI.L.1. Based on the results of any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, the Permittees may submit an application to the Director for a permit modification in accordance with 40 CFR § 270.42(c) to terminate all or a portion of a Corrective Action Schedule of Compliance. This permit modification application must contain information demonstrating that there are no releases of hazardous wastes or hazardous constituents from HWMU(s), SWMU(s) and/or AOC(s) at the Facility that pose a threat to human health or the environment, as well as information required in 40 CFR § 270.42(c), which incorporates by reference 40 CFR §§270.13 through 270.22,

270.62, and 270.63. Relevant information to be included in the application shall include, at a minimum:

- Depth of Released Contamination into Soil.
- Impact on Groundwater or Surface Water
- Constituents Sampled
- Data Quality Objectives
- Sampling Method
- Laboratory Results of Analysis
- Data Quality
- Results of Cleanup Verification Sampling

VI.L.2. If, based on review of the Permittees' request for a permit modification, any investigation, study, assessment, interim measure and/or corrective action and any other relevant information, including comments received during any relevant public comment period, the Director determines that releases or suspected releases which were investigated are either non-existent or do not pose a threat to either human health or the environment, the Director will grant the requested modification.

VI.L.3. A determination of no further action shall not preclude the Director from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release or likelihood of a release from a HWMU, SWMU and/or AOC or that the Facility is likely to pose a threat to human health or the environment. In such a case, the Director will initiate a modification according to the procedures set forth in 40 CFR § 270.41, to rescind the determination made in accordance with this Permit Condition VI.L.

VI.M. Corrective Action Beyond the Facility Boundary

If the Director determines that further actions beyond those provided in a Corrective Action Schedule of Compliance, or changes to that which is stated herein, are warranted, the Director will create or modify such Schedule of Compliance and/or other Permit Condition(s) in

accordance with the permit modification processes set forth in 40 CFR § 270.41. [See 40 CFR § 270.41.]

VI.N. Financial Assurance for Corrective Action

VI.N.1. A proposal for establishing a financial assurance mechanism for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit, including construction of such corrective action or remedy, shall be submitted to the Director for approval in accordance with Permit Condition I.G.5., simultaneously with the request for a permit modification required under Permit Condition VI.K. The proposal shall contain, at a minimum:

- A cost estimate for construction, operation, maintenance, and monitoring of the selected corrective action or remedy for a period of 20 years including assumptions used to make the cost estimate;

- A description of the financial assurance mechanism that will be used; and

- A schedule for establishing the mechanism.

VI.N.3. The mechanism by which financial assurance is secured -- for either performance of any of the work described in a Corrective Action Schedule of Compliance or implementation of any other remedy in accordance with this Permit -- may include surety bonds, insurance policies (issued by an independent commercial insurer), letters of credit, or any other mechanism acceptable to the Director as described in any permit modification undertaken in accordance with Permit Condition VI.K. The mechanism shall be established to allow the U.S. Environmental Protection Agency to direct the funds to ensure construction, operation, maintenance and/or monitoring occur as required by this Permit.

VI.O. Quality Assurance and Quality Control

VI.O.1. As part of any work plan(s) required by this Module, the Permittees shall include a Quality Assurance Project Plan ("QAPP"), for the Director's review and approval in accordance with Permit Condition I.G.5. The QAPP shall address quality assurance, quality control, and chain of custody procedures for any sampling, monitoring and analytical activities. The Permittees shall follow "EPA Requirements for Quality

Assurance Project Plans (QA/R-5)" (EPA/240/B-01/003, March 2001 (Reissued May 2006)), "Guidance for Quality Assurance Project Plans (QA/G-5)" (EPA/240/R-02/009, December 2002), and "EPA Requirements for Quality Management Plans (QA/R-2)" (EPA/240/b-01/002, March 2001) as well as other applicable documents identified by the Director.

VI.O.2. As part of any work plan(s), the Permittees shall include Data Quality Objectives for any data collection activity to ensure that data of known and appropriate quality are obtained and that data are sufficient to support their intended use as required by this Module.

VI.O.3. The Permittees shall ensure that laboratories used by the Permittees for analysis perform such analysis according to the latest approved edition of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (also known as SW-846) or other methods approved by EPA. If methods other than EPA methods are to be used, the Permittees shall specify all such protocols in the appropriate work plan(s). In accordance with the procedures set forth in Permit Condition I.G.5., the Director may reject any data that does not meet the requirements of the approved work plan(s) and EPA analytical methods and may require resampling and additional analysis.

VI.O.4. The Permittees shall ensure that all laboratories employed for analyses participate in a quality assurance/quality control ("QA/QC") program equivalent to the program that EPA follows. The Permittees shall, on the Director's request, make arrangements for EPA to conduct a performance and QA/QC audit of the laboratories chosen by the Permittees, whether before, during, or after sample analyses. Upon the Director's request, the Permittees shall have the laboratories perform analyses of samples provided by EPA to demonstrate laboratory QA/QC and performance. If the audit reveals deficiencies in a laboratory's performance or QA/QC, the Permittees shall submit a plan to address the deficiencies and the Director may require resampling and additional analysis. Requests by the Director in accordance with this Permit Condition VI.O.4. are subject to the informal dispute resolution provisions of Permit Condition I.L.

VI.O.5. The Director may require the Permittees to change laboratories for reasons including, but not limited to: QA/QC, performance, conflict of interest, or confidential agency audit information. In the event the Director requires a laboratory change, the Permittees shall propose two alternative laboratories within thirty (30)

calendar days. Once the Director approves of the laboratory change, the Permittees shall ensure that laboratory service shall be made available within fifteen (15) calendar days. The Director's requirement(s) and approval(s) pursuant to this Permit Condition VI.O.5. are subject to the informal dispute resolution provisions of Permit Condition I.L.

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
1	Spent carbon reactivation furnace - RF-1 and Associated Equipment (Dewater screw)	South of RF-2	Furnace shell – carbon steel; internal firebrick lining and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation	August 1992; Shut down in 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
2	Spent carbon reactivation furnace RF-2 and Associated Equipment (Dewater Screw, Weigh Belt)	East of warehouse	Furnace shell – carbon steel; internally lined with firebrick and block insulation; hearths and furnace roof constructed with firebrick; furnace roof is comprised of firebrick backed with block insulation and castable insulation; bottom hearth is insulated with block insulation and castable insulation; Continuously seal welded internally to assure an air-tight assembly. Dewatering screw length 17 ft; diameter 8 in.	July 1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
3	3 RF–1 Air pollution control equipment					
	Afterburner	RF-1 structure	Refractory lined steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Venturi scrubber	RF-1 structure	Hastelloy C	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Packed bed scrubber	RF-1 structure	Fiberglass	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Emissions stack	RF-1 structure	Mild steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
4	RF–2 Air pollution control equipment					

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
	Afterburner	RF-2 structure	Refractory lined steel cylinder chamber	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Venturi scrubber	RF-2 structure	Hastelloy C	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Packed bed scrubber	RF-2 structure	Fiberglass	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Wet electrostatic precipitator	RF-2 structure	Fiberglass/AL6XN	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
	Induced draft fan	RF-2 structure	300-series SS	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
	Emissions stack	RF-2 structure	Fiberglass surrounded by a mild steel shell	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
5	Spent carbon unloading hopper H-1	North end of facility on containment	5000 lb capacity; mild steel	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
6	Spent carbon unloading hopper H-2	Inside warehouse facing east wall	500 lb capacity; mild steel	August 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
7	Hopper air pollution control equipment piping and baghouse	North end of facility on containment	Ducting, baghouse and fan are mild steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
8	Spent carbon slurry and recycle water transfer system	Inside warehouse on containment	4” pipes hopper to tank; 3” pipes T-tank to furnace feed tank; 300-series SS	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
9	Spent carbon storage warehouse	Inside warehouse	80 ft by 80 ft concrete/ metal	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
10	Spent carbon slurry storage tank, T–1	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
11	Spent carbon slurry storage tank, T–2	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
12	Spent carbon slurry storage tank, T–5	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
13	Spent carbon slurry storage tank, T–6	East of warehouse within containment	8319 gal design capacity	Used tank (1956); 1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	HWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
14	Furnace Feed System Tank T-8 and Ancillary Equipment	RF–1 Structure	905 gal 300 series SS	August 1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None
15	T-18 and Ancillary Equipment	RF-2 structure	6500 gal 300-series SS	July 1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
16	Wastewater conveyance piping to wastewater treatment tank	East of RF-2 structure	3” PVC piping	August 1992	Spent activated carbon. See Part B Application for list of applicable waste codes	None
17	Spent carbon storage warehouse barrel washer	Next to H-2 in warehouse	2 ft by 3 ft 300 series stainless steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
18	Carbon adsorber - PV1000	North of Containment Pad for Storage Tanks	1000 lb carbon capacity; mild steel.	August 1992	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
19	Carbon adsorber WS-1	Beside spent carbon storage tank	2 x 2000 lb carbon capacity. Mild steel	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
20	Carbon adsorber WS-2	Beside H-1	5000 lb carbon capacity Fiberglass	1992 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	None
21	Carbon adsorber WS-3	Beside RF–2	1000 lb carbon capacity Mild steel	1996 to present	Spent activated carbon. See Part B Application for list of applicable waste codes	See Section J.2 of the Part B Application
22	Slurry transfer inclined plate settler tank	Adjacent to the venturi scrubber	Mild steel	1992 to 1994	Spent activated carbon. See Part B Application for list of applicable waste codes	See Section J.2 of the Part B Application
23	Scrubber recycle tank T-17	Beside RF-1	Mild steel	1992 to 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-1 - HAZARDOUS WASTE MANAGEMENT UNIT IDENTIFICATION, NEW UNIT NAME

No.	**HWMU Type/Designation**	**Location**	**General Dimensions and Structural Description**	**Date Unit was First Operated**	**Identification of Wastes Managed in Unit**	**Releases from Unit**
24	Filter press	Next to scrubber system for RF-1	Mild steel with polypropylene plates	1992 to 1994	Spent activated carbon. See Part B Application for list of applicable waste codes	None
25	New Facility Discharge Piping System	New piping bypasses Lift Station to POTW	6" PVC	February 1996	Spent activated carbon. See Part B Application for list of applicable waste codes	None

TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
1	Bermed containment area	East of Warehouse	Approx 180' x 55'; concrete	August 1992	Spent activated carbon. See Part A Application for list of applicable waste codes	None
2	Sump by H-1	South of H-1	3'-4" square; concrete	July 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
3	Sump by storage tank, T–9	East of warehouse in between T-9 and RF-2	3'-4" square sump; U-drain 30' long x 16"wide; concrete	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
4	Recycled motive water storage tank, T–9	East of warehouse on containment	10,500 gal 316 series stainless steel	1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
5	Rainwater and motive water storage tank, T–12	East of warehouse on containment	25,080 gal Mild steel	1992. Removed from service in 2002.	Spent activated carbon. See Part A Application for list of applicable waste codes	None

TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
6	Wastewater storage tank, T–11 System	East of the warehouse and south of RF -2	10' Dia x 20' H; Approx 12,000 gal fiberglass	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
7	Sump by cooling screw under Venturi scrubber tank	East of warehouse beside RF-2	3'-4" square; concrete	July 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
8	RF–2 scrubber water equalization tank, T-19	Under RF-2 Structure	Approx. 1000 gal Fiberglass	July 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
9	Hazardous waste debris bin	North of warehouse on asphalt pavement	20 - 40 cubic yards Mild steel	August 1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
10	Spent carbon storage warehouse grated trenches and sump	Warehouse in containment area	Trench 3 ft, 4 in square sump U-drain 50 ft long, 16 in wide; cross drain sections 40 ft long 16 in wide Concrete	1992 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None

TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
11	Hopper concrete pad	Outside H-1 structure	Approx 60' x 44'; concrete	July 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
12	WWTP	Inside warehouse	Fiberglass, mild steel modular water treatment system. Separate containment.	October 2003 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
13	Wastewater lift station and piping system (old)	At the end of access road to plant. Old piping from Tank T-11 to the Lift Station	Approx. height 15 ft; outside diameter 5 ft Lift Station: mild steel/concrete/fiberglass Old piping system PVC.	1992 to 1996	Spent activated carbon. See Part A Application for list of applicable waste codes	None
14	Spent carbon unloading and transfer area asphalt pad	North area of facility	Approx. 44 ft by 80 ft	August 1996 to present	Spent activated carbon. See Part A Application for list of applicable waste codes	None
15	Satellite Accumulation Area	North side of warehouse	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None
16	Satellite Accumulation Area	South side of drum containment	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None
17	Satellite Accumulation Area	East of Control Room	≤ 55 gallons (metal or plastic)	August 1992 to present	Various Debris	None

TABLE VI-2 - SOLID WASTE MANAGEMENT UNIT IDENTIFICATION

No.	SWMU Type/Designation	Location	General Dimensions and Structural Description	Date Unit was First Operated	Identification of Wastes Managed in Unit	Releases from Unit
18	Satellite Accumulation Area	Laboratory in Admin Building	≤ 55 gallons (metal or plastic)	August 1996 to present	Laboratory Debris and laboratory Testing	None
19	Satellite Accumulation Area	Underneath Spent Carbon Baghouse	≤ 55 gallons (metal or plastic)	August 1992 to present	Spent Carbon Dust from Baghouse	

TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE, NEW UNIT NAME

No.	Description of AOC	Location	Management Requirements at Closure
1	Spent carbon unloading and transfer area.	AOC 1 is entirely contained within SWMU14.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 5 & 7.
2	Tank area concrete containment pad	AOC 2 is entirely contained within SWMU 1.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 3.
3	Receiving area/pad	AOC 3 is entirely contained within SWMU14.	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 8.
4	Hopper H-1 loading/unloading area	See HWMU 5 for more detail on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 4 & 5.
5	Hopper H-2 loading/unloading area	See HWMU 6 for more detail on this unit	Sampling. See Closure Plan Container Area Sample Locations 1 & 2.
6	Spent carbon storage warehouse	See HWMU 9 for more detail on this unit	Sampling. See Closure Plan Container Area Sample Locations 1, 2, & 3.
7	Furnace feed systems	See HWMUs 14 and 15 for more details on these units	Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1 & 2
8	Recycled motive water tank T-9	See SWMU 4 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.
9	Rainwater, Dewatering Screw, and Motive Water Storage Tank T-12	See SWMU 5 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 2.

TABLE VI-3 - AREAS OF CONCERN (AOC) IDENTIFICATION TABLE, NEW UNIT NAME

No.	Description of AOC	Location	Management Requirements at Closure
10	Spent carbon storage warehouse barrel washer	See HWMU 17 for more details on this unit	Sampling. See Closure Plan Container Area Sample Locations 1, 2, & 3.
11	Bermed concrete pad in process area	AOC 2 is entirely contained within SWMU 1. See SWMU 1 for more detail on this unit	Sampling. See Closure Plan RF-1 and RF-2 Process Area Sample Locations 1, 2, & 3.
12	Sump by unloading hopper H-1	See SWMU 2 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 4.
13	Sump by storage tank T-9	See SWMU 3 for more details on this unit	Sampling. See Closure Plan Tank Area and Unloading Area Sample Location 6.
14	Spent carbon storage tanks and carbon adsorbers	Please see HWMUs 10, 11, 12, & 13 and HWMUs 19, 20, & 21 for more details on these units	Sampling. See Closure Plan Tank Area and Unloading Area Sample Locations 1, 2, & 3.