



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4  
ATLANTA FEDERAL CENTER  
61 FORSYTH STREET  
ATLANTA, GEORGIA 30303-8960

APR 24 2006

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. William E. Murphie, Manager  
U.S. Department of Energy  
Portsmouth/Paducah Project Office  
P.O. Box 1410  
Paducah, Kentucky 42002

APR 28 PM 1:25

SUBJ: Final HSWA Permit  
U.S. DOE Paducah Gaseous Diffusion Plant  
Paducah, Kentucky  
EPA I.D. No. KY8 890 008 982

Dear Mr. Murphie:

Enclosed please find a copy of the final Hazardous and Solid Waste Amendments (HSWA) permit for U.S. DOE Paducah Gaseous Diffusion Plant located in Paducah, Kentucky. This permit addresses Subpart BB organic air emission standards for equipment leaks and applies to two pumps and 30 valves associated with four waste storage tanks located in Building C-733. The permit also addresses conditions related to land disposal restrictions. As no comments on the draft permit were received during the public review period, the final permit is effective immediately upon issuance.

If you have any questions regarding the enclosed permit, please contact Mr. Larry Fitchhorn, P.E., at (404) 562-8497.

Sincerely,

A handwritten signature in black ink, appearing to read "Beverly H. Banister".

Beverly H. Banister  
Acting Director  
Waste Management Division

Enclosure: Final permit



## Hazardous & Solid Waste Amendments (HSWA) Portion Of The RCRA Permit

**OWNER:** U.S. Department of Energy  
P.O. Box 1410  
Paducah, Kentucky 42002

EPA I.D. No: KY8 890 009 982

**OPERATORS:** U.S. Department of Energy  
P.O. Box 1410  
Paducah, Kentucky 42002-1410

Paducah Remediation Services, LLC  
P.O. Box 1410  
Paducah, Kentucky 42002-1410

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, 42 USC Section 6901 *et seq.*, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616, 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), a permit is issued to U.S. Department of Energy Paducah Gaseous Diffusion Plant (hereafter called the Permittee), who owns and operates a hazardous waste facility located in Paducah, Kentucky.

This Permit, in conjunction with the Hazardous Waste Management Permit issued by the State of Kentucky, constitutes the full RCRA Permit for this facility. The Permittee, pursuant to this permit, shall be required to comply with all land disposal restrictions and organic air emission standards applicable to this facility and to certify annually that on-site generation of hazardous waste is minimized to the extent practicable.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and applicable regulations contained in 40 CFR Parts 260 through 264, 266, 268, 270, and 124 as specified in the permit and statutory requirements of RCRA, as amended by HSWA. 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 Permittee prior to issuance of this permit are accurate. 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, and §270.43 and potential enforcement action. The Permittee must inform EPA of any deviation from or changes in the information in the application which would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

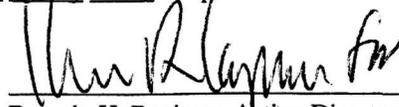
The authority to perform all actions necessary to issue, modify, enforce, or revoke this permit has been delegated by the Regional Administrator to the Waste Management Division Director.

This permit is effective April 24, 2006, and shall remain in effect for ten (10) years until April 23, 2016, unless revoked and reissued, or terminated under 40 CFR §270.41 and §270.43 or continued in accordance with 40 CFR §270.51(a). All obligations for performance of HSWA provisions required under this permit are in effect until deemed complete by the Regional Administrator.

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.

April 24, 2006

Issued Date

  
Beverly H. Banister, Acting Director  
Waste Management Division

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## PART I - STANDARD CONDITIONS

### I.A. EFFECT OF PERMIT

Compliance with this RCRA permit constitutes compliance, for purposes of enforcement, with Subtitle C of RCRA except for those requirements not included in the permit which become effective by statute, are promulgated under 40 CFR Part 268 restricting placement of hazardous waste in or on the land or are promulgated under 40 CFR Part 264 of this chapter regarding leak detection systems for new and replacement surface impoundment, waste pile, and landfill units, and lateral expansions of surface impoundment, waste pile, and landfill units, as specified in 40 CFR §270.4. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under Section 3008(a), 3008(h), 3004(v), 3008(c), 3007, 3013 or Section 7003 of RCRA, Sections 104, 106(a), 106(e), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 *et seq.*, commonly known as CERCLA), or any other law providing for protection of public health or the environment.

### I.B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for cause as specified in 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 Permittee does not stay the applicability or enforceability of any permit condition.

### I.C. SEVERABILITY

The provisions of this permit are severable, as specified in 40 CFR §124.16 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.

### I.D. DUTIES AND REQUIREMENTS

#### I.D.1. Duty to Comply

The Permittee 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 authorized by an emergency permit, constitutes a violation of RCRA and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

#### I.D.2. Duty to Reapply

If the Permittee will continue an activity allowed or required by this permit after the expiration date of this permit, the Permittee shall submit a complete application for a new permit at least one hundred eighty (180) calendar days before this permit expires, unless permission for a later date has been granted by the Regional Administrator.

**I.D.3. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for the Permittee 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.

**I.D.4. Duty to Mitigate**

In the event of noncompliance with the permit, the Permittee shall take all reasonable steps to minimize releases of hazardous waste or hazardous constituents to the environment, and shall carry out such measures as are reasonable to prevent significant adverse effects on human health or the environment.

**I.D.5. Proper Operation and Maintenance**

The Permittee 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 Permittee 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 procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

**I.D.6. Duty to Provide Information**

The Permittee shall furnish to the Regional Administrator, within a reasonable time, any relevant information which the Regional Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Regional Administrator, upon request, copies of records required to be kept by this permit.

**I.D.7. Inspection and Entry**

The Permittee shall allow the Regional Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter at reasonable times upon the Permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated, or required under this permit; and
- 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.

**I.D.8. Monitoring and Records**

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative waste sample to be analyzed must be the appropriate method from Appendix I of 40 CFR Part 261, the EPA Region 4 Environmental Compliance Branch's Standard Operating Procedure and Quality Assurance Manual (SOP) (most recent version), or an equivalent method approved by the Regional Administrator. Procedures for sampling contaminated media must be those

identified in the EPA Region 4 SOP or an equivalent method approved by the Regional Administrator. Laboratory methods must be those specified in the most recent edition of Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, or an equivalent method approved by the Regional Administrator.

- b. The Permittee shall retain at the facility, as provided for under 40 CFR Part 264, or other appropriate location as approved by the Regional Administrator, records of all monitoring information required under the terms of this permit, including all calibration and maintenance records, records of all data used to prepare documents required by this permit, copies of all reports and records required by this permit, the certification required by 40 CFR §264.73(b)(9), and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report, certification or application. As a generator of hazardous waste, the Permittee shall retain a copy of all notices, certifications, demonstrations, waste analysis data, and other documentation produced pursuant to 40 CFR Part 268 for at least five years from the date that the waste which is the subject of such documentation was last sent to on-site or off-site treatment, storage, or disposal. These periods may be extended by request of the Regional Administrator at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. Records of monitoring information shall specify:
  - i. The dates, exact place, and times of sampling, or measurements;
  - ii. The individuals who performed the sampling or measurements;
  - iii. The dates analyses were performed;
  - iv. The name of the laboratory which performed the analyses;
  - v. The analytical techniques or methods used; and
  - vi. The results of such analyses.

**I.D.9. Reporting Planned Changes**

The Permittee shall give written notice to the Regional Administrator as soon as possible of any material physical alterations or additions (excluding maintenance and repair) which impact any waste management units at the permitted facility as defined in 40 CFR §270.2.

**I.D.10. Anticipated Noncompliance**

The Permittee shall give advance notice to the Regional Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with the requirements of this permit.

**I.D.11. Transfer of Permit**

This permit may be transferred to a new owner or operator only after notice to the Regional Administrator and only if it is modified or revoked and reissued pursuant to 40 CFR §270.40(b) or §270.41(b)(2) to identify the new permittee and incorporate such other requirements as may be necessary under the appropriate Act. Before transferring ownership or operation of the facility during its operating life, or of a disposal facility during the post-closure care period, the Permittee

shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270, HSWA and this permit.

**I.D.12. Compliance Schedules**

Written notification of compliance or noncompliance with any item identified in the compliance schedule of this permit shall be submitted according to each schedule date. If the Permittee does not notify the Regional Administrator within fourteen (14) calendar days of its compliance or noncompliance with the schedule, the Permittee shall be subject to an enforcement action. Submittal of a required item according to the schedule constitutes notification of compliance.

**I.D.13. Other Noncompliance**

The Permittee shall report all other instances of noncompliance not otherwise required to be reported above, at the time written reports as required by this permit are submitted. The reports shall contain the information listed in Condition I.D.14. as appropriate.

**I.D.14. Other Information**

Whenever the Permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in any document(s) submitted to the Regional Administrator, the Permittee shall promptly submit such facts or information.

**I.E. SIGNATORY REQUIREMENT**

All applications, reports, or information submitted to the Regional Administrator shall be signed and certified in accordance with 40 CFR §270.11.

**I.F. CONFIDENTIAL INFORMATION**

The Permittee may claim confidential any information required to be submitted by this permit in accordance with 40 CFR §270.12.

**I.G. DEFINITIONS**

For purposes of this permit, terms used herein shall have the same meaning as those in RCRA and 40 CFR Parts 124, 260, 261, 264, and 270, unless this permit specifically provides otherwise. Where terms are not defined in the regulation, the permit, or EPA guidelines or publications, 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.

## **PART II - LAND DISPOSAL RESTRICTIONS**

### **II.A. GENERAL RESTRICTIONS**

**II.A.1.** 40 CFR Part 268 identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances under which an otherwise prohibited waste may continue to be placed on or in a land treatment, storage or disposal unit. The Permittee shall maintain compliance with the requirements of 40 CFR Part 268. Where the Permittee has applied for an extension, waiver or variance under 40 CFR Part 268, the Permittee shall comply with all restrictions on land disposal under this Part once the effective date for the waste has been reached pending final approval of such application.

### **II.B. LAND DISPOSAL PROHIBITIONS AND TREATMENT STANDARDS**

**II.B.1.** A restricted waste identified in 40 CFR Part 268 Subpart C may not be placed in a land disposal unit without further treatment unless the requirements of 40 CFR Part 268 Subparts C and/or D are met.

**II.B.2.** The storage of hazardous wastes restricted from land disposal under 40 CFR Part 268 is prohibited unless the requirements of 40 CFR Part 268 Subpart E are met.

**PART III- ORGANIC AIR EMISSIONS REQUIREMENTS**

**III.A. INTRODUCTION AND APPLICABILITY**

Organic Air Emission Standards (40 CFR Parts 264 and 265, Subparts AA, BB and CC) apply to hazardous waste treatment, storage, and disposal facilities.

**III.A.1.** Subpart AA contains emission standards for process vents associated with distillation, fractionation, thin-film evaporation, solvent extraction, and air or steam stripping operations that process hazardous waste with an annual average total organic concentration of at least ten (10) parts per million (ppm) by weight.

- a. The conditions of this Part apply to the following process vents:

**SUMMARY OF PROCESS VENTS SUBJECT TO SUBPART AA**

Process Vent Identification	Hazardous Waste Management Unit and Location	Description of Hazardous Waste Stream	EPA Hazardous Waste Code	Estimated Emissions (lb/hr or ton/yr)	Control Device Option
		Not applicable at this time			

**III.A.2.** Subpart BB contains emissions standards that address leaks from specific equipment (i.e. pumps, valves, compressors, etc.) that contain or contact hazardous waste that have an organic concentration of at least ten (10) percent by weight.

- a. The conditions of this part may apply to a variety of waste management units at the Permittee's facility. The permittee may manage only those hazardous wastes identified in the state RCRA Permit with the equipment subject to this regulation. The conditions of this Part apply to equipment listed in Appendix A attached to this Permit.

**III.A.3.** 40 CFR Parts 264 and 265, Subpart CC apply to hazardous waste treatment, storage, and disposal facilities, including certain hazardous waste generators accumulating waste on-site in RCRA permit-exempt (90-day) tanks and containers. In general, under these standards air emissions controls must be used for tanks, surface impoundments, containers and miscellaneous units which contact hazardous waste containing an average volatile organic concentration greater than 500 ppmw at the point of origination determined by the procedures outlined in 40 CFR § 264.1083(a), except as specifically exempted under 40 CFR § 264.1080 and § 264.1082.

- a. Subpart CC applies to all tanks, containers, surface impoundments and/or miscellaneous units, identified in the Commonwealth of Kentucky RCRA permit, except as provided for

in 40 CFR § 264.1 and § 264.1080(b). The conditions of this Part apply to hazardous waste management units identified in Appendix B of this permit, for which required control equipment has been installed and is operational.

Subpart CC is not applicable at this time

- b. The hazardous waste management units identified in the table below are exempt from the RCRA Subpart CC standards as specifically cited.

**RCRA SUBPART CC EXEMPTED  
HAZARDOUS WASTE MANAGEMENT UNITS**

Hazardous Waste Management Unit	RCRA Subpart CC Regulation Cited
Not applicable at this time	

**III.B. EMISSION CONTROL TECHNOLOGY**

The Permittee shall install and maintain all regulated units and associated emission control technology in accordance with the detailed plans, schedules, information and reports as contained in the Hazardous Waste Management Permit Application for the U.S. DOE Paducah Gaseous Diffusion Plant, Volume III, Part F, pages F-9 and F-10, dated April 2004.

**III.C. GENERAL STANDARDS**

The Permittee shall comply with the applicable requirements of 40 CFR Part 264, Subpart CC.

**III.D. REPORTING REQUIREMENTS**

**III.D.1.** For each tank, container, surface impoundment or miscellaneous unit which manages hazardous waste that is exempted from using air emission controls, a written report shall be submitted to the Regional Administrator within fifteen (15) days of each occurrence when hazardous waste is placed in the waste management unit in noncompliance with the Conditions of 40 CFR §§ 264.1082(c)(1) or (c)(2), as applicable. The written report shall contain the EPA identification number, facility name and address, a description of the noncompliance event and the cause, the dates of the noncompliance, and the actions taken to correct the noncompliance and prevent reoccurrence of the noncompliance.

**III.D.2.** For tanks listed in Conditions II.A.2., which use air emission controls in accordance with the requirements 40 CFR § 264.1084(c), a written report shall be submitted to the Regional Administrator within fifteen (15) days of each occurrence when hazardous waste is managed in the tank in noncompliance with the Conditions specified in 40 CFR § 264.1084(c)(1) through (c)(4). The written report shall contain the EPA identification number, facility name and address, a description of the noncompliance event and the cause, the dates of the noncompliance, and the actions taken to correct the noncompliance and prevent reoccurrence of the noncompliance.

- III.D.3.** For control devices used in accordance with the requirements of 40 CFR § 264.1087, a semiannual written report shall be submitted to the Regional Administrator except as provided for in Condition II.D.4. of this Part. The report shall describe each occurrence during the previous 6-month period when a control device is operated continuously for 24 hours or longer in noncompliance with the applicable operating values defined in 40 CFR § 264.1035(c)(4) or when a flare is operated with visible emissions for 5 minutes or longer in a two-hour period, as defined in 40 CFR § 264.1033(d). The written report shall include the EPA identification number, facility name and address, and an explanation why the control device could not be returned to compliance within 24 hours, and actions taken to correct the noncompliance.
- III.D.4.** A report to the Regional Administrator in accordance with the requirements of Condition IV.D.3. of this Part is not required for a 6-month period during which all control devices subject to 40 CFR Part 264, Subpart CC, are operated such that during no period of 24 hours or longer, did a control device operate continuously in noncompliance with the applicable operating values defined in 40 CFR § 264.1035(c)(4) of this part and no flare operated with visible emissions for 5 minutes or longer in a two-hour period, as defined in 40 CFR § 264.1033(d).
- III.D.5.** All reports shall be signed and dated by an authorized representative of the Permittee as per 40 CFR § 270.11(b).

**III.E. NOTIFICATION OF NEW UNITS**

Prior to installing any tank, container, surface impoundment or miscellaneous unit subject to 40 CFR Part 264, Subpart CC, or modifying an existing process, waste handling or tank or container such that the unit(s) will become subject to 40 CFR Part 264 Subpart CC, the Permittee shall apply for a permit modification under § 270.42, and provide specific Part B application information required under 40 CFR §§ 270.14-17 and § 270.27, as applicable, with the modification request.

Table A-1

All Equipment Subject to Organic Emission Standards

Equip. ID. No.	Equip. Type	Hazardous Waste Management Unit and Equipment Location	EPA Hazardous Waste Number	Brief Waste Description	Physical State	Percent by Weight Total Organics	Method of Compliance
		All valves and pumps located in hazardous waste storage tanks in Building C-733	F001-F005, D00X, for all valves and pumps	Miscellaneous solutions exhibiting toxicity characteristics (D00X, i.e., all the D codes); liquids contaminated with spent solvents (F001-F005); miscellaneous solvents contaminated with spent solvents and metals (F001-F005, D004-D011)	Liquid, for all valves and pumps	>10%, for all valves and pumps	Attachment i, Valves, paragraph 1, for all valves
	Valves						
C-733-1006							
C-733-1007							
C-733-1008							
C-733-1009							
C-733-1010							
C-733-1021							
C-733-1023							
C-733-1026							
C-733-1031							
C-733-1032							
C-733-1033							
C-733-1034							
C-733-1035							
C-733-1042							

Equip. ID. No.	Equip. Type	Hazardous Waste Management Unit and Equipment Location	EPA Hazardous Waste Number	Brief Waste Description	Physical State	Percent by Weight Total Organics	Method of Compliance
C-733-1046							
C-733-1047							
C-733-1054							
C-733-1055							
C-733-1056							
C-733-1061							
C-733-1062							
C-733-1082							
C-733-1083							
C-733-1086							
C-733-1087							
C-733-1088							
C-733-1089							
C-733-1094							
C-733-1095							
C-733-1101							
	Pumps						Attachment 1, Pumps, paragraph 8
C-733-1030							

Equip. ID. No.	Equip. Type	Hazardous Waste Management Unit and Equipment Location	EPA Hazardous Waste Number	Brief Waste Description	Physical State	Percent by Weight Total Organics	Method of Compliance
C-733-1041							



Attachment 1

METHOD OF COMPLIANCE FOR SUBPART BB

Valves

1. These valves shall be monitored monthly using Reference Method 21, and must maintain a reading of less than 10,000 ppm. Any valve for which a leak is not detected for two successive months may be monitored the first month of each succeeding quarter until a leak is detected. If a leak is detected, the Permittee must resume monitoring the valve monthly until a leak is not detected for two successive months. All leaks must be repaired and in compliance no later than 15 calendar days after leak detection, and a first attempt at repair must be made no later than 5 calendar days after leak detection [40 C.F.R. 264.1057(a)-(e)].
2. These valves are considered leakless and achieve a no-detectable emissions limit (<500 ppm above background as measured by Reference Method 21) and must have performance tests conducted initially upon designation, annually, and as requested by the Regional Administrator [40 C.F.R. 264.1057(f)].
3. These valves are considered to meet a performance level of 2 percent of all valves leaking for a single hazardous waste management unit and must comply with the required notification, monitoring, and repair program [40 C.F.R. 264.1061].
4. The Permittee must comply with a skip-period leak detection and repair program for these valves [40 C.F.R. 264.1062].
5. These valves are designated unsafe to monitor or difficult to monitor [40 C.F.R. 264.1057(g)-(h)]. Use 5U for unsafe and 5D for difficult. These valves shall be monitored at the frequencies specified in Table 2 and the Permittee must attach an additional written monitoring plan to meet the requirements of 40 C.F.R. 264.1057(g)-(h).
6. These open-ended valves or lines shall comply with the requirements in 40 C.F.R. 264.1056.
7. These valves shall be considered in heavy liquid service and shall be monitored visually, audibly, by olfactory methods, or other detection methods at least monthly, and shall comply with the required repair program if evidence of a leak is found [40 C.F.R. 264.1058]

Pumps

8. This method applies if the pump is in light liquid service and does not fall under one of the three categories in numbers 8, 9, and 10.  
These pumps shall be inspected weekly and monitored monthly using Reference Method 21, and must maintain a reading less than 10,000 ppm and must comply with the leak repair program as specified in 40 C.F.R. 264.1052.

9. These pumps have a dual mechanical seal system that includes a barrier fluid between two seals and they must comply with the inspection and repair requirements of 40 C.F.R. 264.1052(d). The Permittee must attach detailed design, installation, and maintenance specifications and standard operating procedures for these pumps.
10. These pumps are designated for no-detectable emissions limit (<500 ppm above background as measured by Reference Method 21) and must be monitored initially upon designation, annually, and as requested by the Regional Administrator [40 C.F.R. 264.1052(e)].
11. These pumps are equipped with closed vent systems capable of transporting any leakage from the seal or seals to a control device and must comply with the monitoring and inspection requirements of 40 C.F.R. 264.1060 [40 C.F.R. 264.1052(f)].
12. This method applies if the pump is in heavy liquid service. These pumps shall be monitored visually, audibly, by olfactory methods or other detection methods and comply with the required repair program if evidence of a leak is found [40 C.F.R. 264.1058].

#### **Compressors**

13. This method applies only if the compressor does not fall under one of the two categories in numbers 13 or 14.  
These compressors must be equipped with a sensor that detects failure of the seal system, barrier fluid system, or both, where the sensor is checked daily or has an audible alarm that is checked monthly and the Permittee complies with the specified leak repair program [40 C.F.R. 264.1053(a)-(g)].
14. These compressors shall be equipped with closed vent systems and control devices that comply with the monitoring requirements of 40 C.F.R. 264.1060 [40 C.F.R. 264.1053(h)].
15. These compressors operate with no detectable emissions. They shall be tested for compliance using Reference Method 21 initially upon designation, annually, and as requested by the Regional Administrator [40 C.F.R. 264.1053(i)].

#### **Pressure Relief Devices**

16. This method applies only if the pressure relief device does not fall under the category in number 17.  
These pressure relief devices must be operated with no detectable emissions (<500 ppm above background, as measured by Reference Method 21) and must be monitored initially upon designation, annually, and at other times as requested by the Regional Administrator [40 C.F.R. 264.1053(j)].
17. These pressure relief devices shall be equipped with a closed vent system capable of capturing and transporting leakage to a control device that meets the monitoring requirements of 40 C.F.R. 264.1060 [40 C.F.R. 264.1054(c)].

### **Closed Vent Systems and Control Devices**

The Permittee shall monitor these closed vent systems and control devices in accordance with a monitoring schedule specified in a specific monitoring plan that the Permittee shall attach [40 C.F.R. 264.1060 and 264.1033]. The following options for inspection and monitoring are available:

18. These closed vent systems that are designed to be operated with no detectable emissions (<500 ppm above background, as measured by Reference Method 21), which have joints, seams or other connections that are permanently or semi-permanently sealed shall be visually inspected at least once per year to check for defects [40 C.F.R. 264.1060 and 264.1033(f)(1)].
19. These closed vent systems that are designed to be operated with no detectable emissions (<500 ppm above background, as measured by Reference Method 21) shall be monitored annually and at other times request by the Regional Administrator using Method 21 [40 C.F.R. 264.1060 and 264.1033(f)(1)].
20. These closed vent systems that are designed to operate below atmospheric pressure shall be visually inspected initially and at least once per year [40 C.F.R. 264.1060 and 264.1033(f)(2)].
21. These closed vent systems have been designated as unsafe to monitor and are exempt from the inspection and monitoring requirements except that all components are required to be monitored as frequently as possible during safe-to-monitor times [40 C.F.R. 264.1060 and 264.1033(o)].
22. Each control device's monitor readings shall be inspected at least daily [40 C.F.R. 264.1060 and 264.1033(f)(3)].

### **Sampling Connection Systems**

23. All sampling connection systems shall comply with the standards in 40 C.F.R. 264.1055.

### **Flanges and Other Connectors**

24. These flanges and connectors shall be monitored visually, audibly, by olfactory methods or other detection methods at least monthly and shall comply with the required repair program if evidence of a leak is found [40 C.F.R. 264.1058].
25. These connectors are inaccessible or are ceramic or ceramic lined and are exempt from monitoring and recordkeeping requirements [40 C.F.R. 264.1058(e)].

### **Exempt Equipment**

26. This equipment which contains or contacts hazardous waste with an organic concentration of at least 10 percent by weight for a period of less than 300 hours per year is exempt from the requirements of 264.1052 through 264.1060 [40 C.F.R. 264.1050(f)].

## Appendix B

### Schedule of Compliance

Schedule of Compliance	Due Date
Written report of noncompliance of tanks, surface impoundments or containers with 40 CFR §§ 264.1082(c)(1) or (c)(2) Condition II.D.1.	Within fifteen (15) calendar days of becoming aware of noncompliance
Written report of noncompliance of tanks with 40 CFR §§ 264.1084(c)(1) or (c)(2) Condition II.D.2.	Within fifteen (15) calendar days of becoming aware of noncompliance
Semi-Annual Report for Use of Control Devices 40 CFR § 264.1090(c) Condition II.D.3	Semi-annually, beginning six (6) months from the effective date of the permit*

\* Semi-annual report is not required if provisions of Condition II.D.4. are met.