APPLICATION REVIEW CHECKLIST

LAND PROTECTION DIVISION
HAZARDOUS WASTE PROGRAM

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Facility Name: _____

Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____

Application Type: _____ Date: _____
(New/Modify/Renewal)

Administrative Reviewer: _____ Start Date: _____ Completion Date: _____

Technical Reviewer: _____ Start Date: _____ Completion Date: _____

Issuance Deadline: _____

40 CFR 264 Subpart BB

AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

ODEQ Form Number
XXX - XXX

Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE YES/NO/NA	TECHNICALLY COMPLETE YES/NO/NA	REMARKS
APPLICABILITY - 264.1050							
BB 1	264.1050(a)		**Applies to facilities that treat, store, or dispose of hazardous wastes (except as provided in 264.1).**				
BB 2	264.1050(b)		**Except as in 264.1064(k), this subpart applies to equipment that contains or contacts hazardous wastes with organic concentrations of at least 10 percent by weight that are managed in:**				
BB 3	264.1050(b)(1)		Units that are subject to the permitting requirements of part 270, or				

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BB 4	264.1050(b)(2)		Hazardous waste recycling units that are located on hazardous waste management facilities otherwise subject to the permitting requirements of part 270.				
BB 5	264.1050(c)		**If the facility with equipment subject to 264.1052 through 264.1065 has received a permit under section 3005 of RCRA prior to December 21, 1990, 264.1052 through 264.1065 must be incorporated when the permit is reissued under 124.15 or reviewed under 270.50.**				
BB 6	264.1050(d)		**Each piece of applicable equipment shall be marked to be distinguished readily from other pieces of equipment.**				
BB 7	264.1050(e)		**Equipment that is in vacuum service is excluded from the requirements of 264.1052 to 264.1060 if it is identified as required in 264.1064(g)(5).**				
(BB 8) **DEFINITIONS - 264.1051** Definitions are given in 264.1031, the Act, and parts 260-266. [See the end of this module]							
STANDARDS: PUMPS IN LIGHT LIQUID SERVICE - 264.1052							
BB 9	264.1052(a)(1)		Each pump shall be monitored monthly to detect leaks by the methods in 264.1063(b), except as provided in paragraphs (d), (e), and (f) of this section.				
BB 10	264.1052(a)(2)		Each pump shall be visually inspected each week for indications of liquids dripping from the pump seal.				
BB 11	264.1052(b)(1)		If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.				
BB 12	264.1052(b)(2)		If there are indications of liquids dripping from the pump seal, a leak is detected.				

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					YES/NO/NA	YES/NO/NA	
BB 13	264.1052(c)(1)		When a leak is detected, it shall be repaired • as soon as practicable, • but not later than 15 days after detection, except as provided in 264.1059.				
BB 14	264.1052(c)(2)		A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.				
BB 15	264.1052(d)		**Each pump with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the following requirements are met:**				
BB 16	264.1052(d)(1)		Each dual mechanical seal system must be: (i) Operated with the barrier fluid pressure at all times greater than the pump stuffing box pressure, or (ii) Equipped with a barrier fluid degassing reservoir connected by a closed-vent system to a control device that complies with 264.1060, or (iii) Equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions.				
BB 17	264.1052(d)(2)		The barrier fluid system must not be a hazardous waste with organic concentrations 10 percent or greater by weight.				
BB 18	264.1052(d)(3)		Each barrier fluid system must have a sensor to detect the failure of the seal system, the barrier fluid system, or both.				
BB 19	264.1052(d)(4)		Each pump must be visually inspected each week for indications of liquids dripping from the pump seals.				

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					YES/NO/NA	YES/NO/NA	
BB 20	264.1052(d)(5)		(i) Each sensor in paragraph (d)(3) of this section must • be checked daily or • be equipped with an audible alarm that must be checked monthly. (ii) The facility must determine a criterion that indicates failure of the seal system, the barrier fluid system, or both.				
BB 21	264.1052(d)(6)		(i) If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion in paragraph (d)(5)(ii) of this section, a leak is detected. (ii) When a leak is detected, it shall be repaired • as soon as practicable, • but not later than 15 days after detection, except as provided in 264.1059. (iii) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.				
BB 22	264.1052(e)		**Any designated pump, as described in 264.1064(g)(2), for no detectable emissions (less than 500 ppm above background) is exempt from requirements in paragraphs (a), (c) and (d) of this section if the pump meets the following requirements:**				
BB 23	264.1052(e)(1)		Must have no externally actuated shaft penetrating the pump housing.				
BB 24	264.1052(e)(2)		Must operate with no detectable emissions (instrument reading of less than 500 ppm above background by methods in 264.1063(c)).				
BB 25	264.1052(e)(3)		Must be tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times as requested by the Agency.				

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BB 26	264.1052(f)		**Any pump with a closed-vent system capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 264.1060 is exempt from the requirements of paragraphs (a) through (e) of this section.**				
STANDARDS: COMPRESSORS - 264.1053							
BB 27	264.1053(a)		**Each compressor must have a seal system that** **includes a barrier fluid system and** • **prevents leakage of total organic emissions to the atmosphere,** **except as provided in paragraphs (h) and (i) of this section.**				
BB 28	264.1053(b)		**Each compressor seal system as required in paragraph (a) of this section shall be:**				
BB 29	264.1053(b)(1)		Operated with the barrier fluid pressure that is at all times greater than the compressor stuffing box pressure, or				
BB 30	264.1053(b)(2)		Equipped with a barrier fluid system that is connected by a closed-vent system to a control device that complies with 264.1060, or				
BB 31	264.1053(b)(3)		Equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions.				
BB 32	264.1053(c)		**The barrier fluid must not be a hazardous waste with organic concentrations 10 percent or greater by weight.**				
BB 33	264.1053(d)		**Each barrier fluid system as described in paragraphs (a) through (c) of this section shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.**				

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BB 34	264.1053(e)(1)		Each sensor as required in paragraph (d) of this section shall be • checked daily or • equipped with an audible alarm that must be checked monthly • checked daily (if the compressor is located in an unmanned plant site).				
BB 35	264.1053(e)(2)		The facility shall determine a criterion that indicates failure of the seal system, the barrier fluid system, or both.				
BB 36	264.1053(f)		**If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under paragraph (e)(2) of this section, a leak is detected.**				
BB 37	264.1053(g)(1)		When a leak is detected, it shall be repaired • as soon as practicable, but • not later than 15 days after detection, except as provided in 264.1059.				
BB 38	264.1053(g)(2)		A first attempt at repair shall be made no later than 5 days after each leak is detected.				
BB 39	264.1053(h)		**A compressor is exempt from paragraphs (a) and (b) of this section if it has a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of 264.1060, except as provided in paragraph (i) of this section.**				
BB 40	264.1053(i)		**Any compressor, as described in 264.1064(g)(2), with no detectable emissions (instrument reading of less than 500 ppm above background) is exempt from the requirements of paragraphs (a) through (h) of this section if the compressor:**				

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					YES/NO/NA	YES/NO/NA	
BB 41	264.1053(i)(1)		Operates with no detectable emissions (instrument reading of less than 500 ppm above background) as measured by the method in 264.1063(c).				
BB 42	264.1053(i)(2)		Is tested for compliance with paragraph (i)(1) of this section initially upon designation, annually, and at other times as requested by the Agency.				
STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE - 264.1054							
BB 43	264.1054(a)		**Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions (instrument reading of less than 500 ppm above background), as measured by the method in 264.1063(c)**				
BB 44	264.1054(b)(1)		After each pressure release, the pressure relief device shall be returned to no detectable emissions condition (instrument reading of less than 500 ppm above background), as soon as practicable, but no later than 5 days after each pressure release, except as provided in 264.1059.				
BB 45	264.1054(b)(2)		No later than 5 days after the pressure release, the pressure relief device shall be monitored to confirm the no detectable emissions condition (instrument reading of less than 500 ppm above background), as measured by the method 264.1063(c).				
BB 46	264.1054(c)		**Any pressure relief device with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in 264.1060 is exempt from paragraphs (a) and (b) of this section.**				
STANDARDS: SAMPLING CONNECTING SYSTEMS - 264.1055							

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					YES/NO/NA	YES/NO/NA	
BB 47	264.1055(a)		**Each sampling connection system shall be equipped with a closed purge system or closed-vent system.**				
BB 48	264.1055(b)		**Each closed-purge system or closed-vent system as required in paragraph (a) shall:**				
BB 49	264.1055(b)(1)		Return the purged hazardous waste stream directly to the hazardous waste management process line with no detectable emissions, or				
BB 50	264.1055(b)(2)		Collect and recycle the purged hazardous waste stream with no detectable emissions, or				
BB 51	264.1055(b)(3)		Be designed and operated to capture and transport all the purged hazardous waste stream to a control device that complies with the requirements of 264.1060.				
BB 52	264.1055(c)		**In situ sampling systems are exempt from the requirements of paragraphs (a) and (b) of this section.**				
STANDARDS: OPEN-ENDED VALVES OR LINES - 264.1056							
BB 53	264.1056(a)(1)		Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve.				
BB 54	264.1056(a)(2)		The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring hazardous waste stream flow through the open-ended valve or line.				
BB 55	264.1056(b)		**Each open-ended valve or line equipped with a second valve shall be operated such that the valve on the hazardous waste stream end is closed before the second valve is closed.**				

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BB 56	264.1056(c)		**When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) of this section at all other times.**				
STANDARDS: VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE - 264.1057							
BB 57	264.1057(a)		**Each valve in gas/vapor or light liquid service** • **shall be monitored monthly to detect leaks by the methods in 264.1063(b) and** • **shall comply with paragraphs (b) through (e) of this section,** **except as provided in paragraphs (f), (g), and (h) of this section, and 264.1061 and 264.1062.**				
BB 58	264.1057(b)		**If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.**				
BB 59	264.1057(c)(1)		Any valve for which a leak is not detected for two successive months may be monitored the first month of every succeeding quarter, beginning with the next quarter, until a leak is detected.				
BB 60	264.1057(c)(2)		If a leak is detected, the valve shall be monitored monthly until leak is not detected for two successive months.				
BB 61	264.1057(d)(1)		When a leak is detected, it shall be repaired • as soon as practicable, • but no later than 15 days after detection, except as provided in 264.1059.				
BB 62	264.1057(d)(2)		A first attempt at repair shall be made no later than 5 days after each leak is detected.				

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					YES/NO/NA	YES/NO/NA	
BB 63	264.1057(e)		**First attempts at repair include, but are not limited to, the following best practices where practicable:**				
BB 64	264.1057(e)(1)		Tightening of bonnet bolts.				
BB 65	264.1057(e)(2)		Replacement of bonnet bolts.				
BB 66	264.1057(e)(3)		Tightening of packing gland nuts.				
BB 67	264.1057(e)(4)		Injection of lubricant into lubricated packing.				
BB 68	264.1057(f)		Any designated valve, as described in 264.1064(g)(2), for no detectable emissions (instrument reading of less than 500 ppm above background) is exempt from paragraph (a) of this section if the valve:				
BB 69	264.1057(f)(1)		Has no external actuating mechanism in contact with the hazardous waste stream.				
BB 70	264.1057(f)(2)		Is operated with emissions less than 500 ppm above background as determined by the method in 264.1063(c).				
BB 71	264.1057(f)(3)		Is tested for compliance with paragraph (f)(2) of this section initially upon designation, annually, and at other times as requested by the Agency.				
BB 72	264.1057(g)		**Any designated valve, as described in 264.1064(h)(1), as an unsafe-to-monitor valve is exempt from the of paragraph (a) of this section if:**				
BB 73	264.1057(g)(1)		The facility must determine that the valve is unsafe to monitor because monitoring personnel would be in immediate danger as complying with paragraph (a) of this section.				
BB 74	264.1057(g)(2)		The facility must adhere to a written plan that requires monitoring the valve frequently during safe-to-monitor times.				

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BB 75	264.1057(h)		**Any designated valve, as described in 264.1064(h)(2), as a difficult-to-monitor valve is exempt from paragraph (a) of this section if:**				
BB 76	264.1057(h)(1)		The facility determines that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.				
BB 77	264.1057(h)(2)		The valve is located in a hazardous waste management unit that was in operation before June 21, 1990.				
BB 78	264.1057(h)(3)		The facility must follow a written plan that requires monitoring of the valve at least once per calendar year.				
STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVICES IN LIGHT LIQUID OR HEAVY LIQUID SERVICE, AND FLANGES AND OTHER CONNECTORS - 264.1058							
BB 79	264.1058(a)		**The facility shall monitor within 5 days by the method in 264.1063(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.**				
BB 80	264.1058(b)		**If an instrument reading is 10,000 ppm or greater, a leak is detected.**				
BB 81	264.1058(c)(1)		When a leak is detected, it shall be repaired • as soon as practicable, • but not later than 15 days after detection except as provided in 264.1059.				
BB 82	264.1058(c)(2)		The first attempt at repair shall be made no later than 5 days after each leak is detected.				
BB 83	264.1058(d)		**First attempts at repair include, but are not limited to, the best practices under 264.1057(e).**				

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STANDARDS: DELAY OF REPAIR - 264.1059							
BB 84	264.1059(a)		**Delay in repairing leaking equipment will be allowed if the repair is technically infeasible without a hazardous waste management unit shutdown.** **In such a case, repair of this equipment shall occur before the end of the next hazardous waste management unit shutdown.**				
BB 85	264.1059(b)		**Delay in repairing leaking equipment will be allowed for equipment** • **that is isolated from the hazardous waste management unit and** • **that does not continue to contain or contact hazardous waste with organic concentrations at least 10 percent by weight.**				
BB 86	264.1059(c)		**Delay of repair for <u>valves</u> will be allowed if:**				
BB 87	264.1059(c)(1)		The facility determines that emissions of purged material resulting from immediate repair are greater than the emissions from delay of repair.				
BB 88	264.1059(c)(2)		When repairing, the purged material is collected and destroyed or recovered in a control device complying with 264.1060.				
BB 89	264.1059(d)		**Delay of repair for <u>pumps</u> will be allowed if:**				
BB 90	264.1059(d)(1)		Repair requires the use of a dual mechanical seal system that includes a barrier fluid system.				
BB 91	264.1059(d)(2)		Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.				

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BB 92	264.1059(e)		**Delay of repair beyond a hazardous waste management unit shutdown will be allowed for a <u>valve</u> if** • **valve assembly replacement is necessary during the hazardous waste management unit shutdown,** • **valve assembly supplies were sufficiently stocked before being depleted, and** • **valve assembly supplies had been sufficiently stocked before the supplies were depleted.** **Delay of repair beyond the next hazardous waste management unit shutdown will <u>not</u> be allowed unless the next hazardous waste management unit shutdown occurs sooner than 6 months after the first hazardous waste management unit shutdown.**				
(BB 93) **STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES - 264.1060** The facility with closed-vent systems and control devices shall comply with 264.1033.							
ALTERNATIVE STANDARDS FOR VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE: **PERCENTAGE OF VALVES ALLOWED TO LEAK - 264.1061**							
BB 94	264.1061(a)		**A facility subject to 264.1057 may elect to have all valves within a hazardous waste management unit complies with an alternative standard that allows no greater than 2% of the valves to leak.**				
BB 95	264.1061(b)		**The following requirements shall be met if a facility decides to comply with the alternative standard of allowing 2% of valves to leak:**				

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					YES/NO/NA	YES/NO/NA	
BB 96	264.1061(b)(1)		The facility must notify the Agency that they have elected to comply with the requirements of this section.				
BB 97	264.1061(b)(2)		A performance test in paragraph (c) of this section shall be conducted initially upon designation, annually, and at other times requested by the Agency.				
BB 98	264.1061(b)(3)		If a valve leak is detected, it shall be repaired in accordance with 264.1057(d) and (e).				
BB 99	264.1061(c)		**Performance tests shall be conducted as follows:**				
BB 100	264.1061(c)(1)		All valves subject to 264.1057 within the hazardous waste management unit shall be monitored within 1 week by the methods 264.1063(b).				
BB 101	264.1061(c)(2)		If an instrument reading is 10,000 ppm or greater, a leak is detected.				
BB 102	264.1061(c)(3)		The leak percentage shall be determined by dividing the number of leaking valves subject to 264.1057 by the total number of valves subject to 264.1057 within the hazardous waste management unit.				
BB 103	264.1061(d)		**If a facility decides to comply with this section no longer, the facility must notify the Agency in writing that the work practice standard in 264.1057(a) through (e) will be followed.**				
ALTERNATIVE STANDARDS FOR VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE: **SKIP PERIOD LEAK DETECTION AND REPAIR - 264.1062**							
BB 104	264.1062(a)(1)		A facility subject to 264.1057 may elect for all valves within a hazardous waste management unit to comply with one of the alternative work practices in paragraphs (b) (2) and (3) of this section.				

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					YES/NO/NA	YES/NO/NA	
BB 105	264.1062(a)(2)		The facility must notify the Agency before implementing one of the alternative work practices.				
BB 106	264.1062(b)(1)		The facility shall comply with the requirements for valves (264.1057) except as described in paragraphs (b)(2) and (b)(3) of this section.				
BB 107	264.1062(b)(2)		After <u>two consecutive</u> quarterly leak detection periods with the percentage of valves leaking equal to or less than 2%, the facility may begin to <u>skip one</u> of the quarterly leak detection periods for the valves subject to 264.1057.				
BB 108	264.1062(b)(3)		After <u>five consecutive</u> quarterly leak detection periods with the percentage of valves leaking equal to or less than 2 %, the facility may begin to <u>skip three</u> of the quarterly leak detection periods for the valves subject to 264.1057.				
BB 109	264.1062(b)(4)		If the percentage of valves leaking is greater than 2 %, the facility shall monitor monthly in compliance with 264.1057, but may again elect to use this section after meeting 264.1057(c)(1).				
TEST METHODS AND PROCEDURES - 264.1063							
BB 110	264.1063(a)		**A facility subject to the provisions of this subpart shall comply with the test methods and procedures in this section.**				
BB 111	264.1063(b)		**Leak detection monitoring, as required in 264.1052-264.1062, shall comply with the following requirements:**				
BB 112	264.1063(b)(1)		Monitoring shall comply with Reference Method 21 in 40 CFR part 60.				
BB 113	264.1063(b)(2)		The detection instrument shall meet the performance criteria of Reference Method 21.				

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					YES/NO/NA	YES/NO/NA	
BB 114	264.1063(b)(3)		The instrument shall be calibrated before use each day by the procedures in Reference Method 21.				
BB 115	264.1063(b)(4)		Calibration gases shall be: (i) Zero air (less than 10 ppm of hydrocarbon in air). (ii) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.				
BB 116	264.1063(b)(5)		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.				
BB 117	264.1063(c)		**When equipment is tested for compliance with no detectable emissions, as required in 264.1052(e), 264.1053(i), 264.1054, and 264.1057(f), the test shall comply with the following requirements:**				
BB 118	264.1063(c)(1)		The requirements of paragraphs (b)(1) through (4) of this section shall apply.				
BB 119	264.1063(c)(2)		The background level shall be determined as set forth in Reference Method 21.				
BB 120	264.1063(c)(3)		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.				
BB 121	264.1063(c)(4)		The difference between the maximum concentration (instrument reading) and the background level is compared with 500 ppm for determining compliance.				
BB 123	264.1063(d)		**In accordance with the waste analysis plan required by 264.13(b), the facility must determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using the following:**				

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BB 124	264.1063(d)(1)		Methods described in ASTM Methods D 2267-88, E 169-87, E 168-88, E 260-85 (incorporated by reference under 260.11);				
BB 125	264.1063(d)(2)		Method 9060 or 8240 of SW-846 (incorporated by reference under 260.11); or				
BB 126	264.1063(d)(3)		Knowledge of the nature of the hazardous waste stream or the process by which it was produced. Documentation of a waste determination by knowledge is required. Examples of documentation include • production process information documenting that no organic compounds are used, • the waste is generated by an identical process that has previously been demonstrated by direct measurement to have a total organic content less than 10%, or • prior speciation analysis results on the same waste stream that no process changes have occurred since that analysis that could affect the waste total organic concentration.				
BB 127	264.1063(e)		**If the facility determines that a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10% by weight, the determination can be revised only after following the procedures in paragraph (d)(1) or (d)(2) of this section.**				
BB 128	264.1063(f)		**When the facility and the Agency do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10% by weight, the procedures in paragraph (d)(1) or (d)(2) of this section can be used to resolve the dispute.**				

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BB 129	264.1063(g)		**Samples used in determining the percent organic content shall be representative of the highest total organic content hazardous waste to be contained in or contact the equipment.**				
BB 130	264.1063(h)		**To determine if pumps or valves are in light liquid service, the vapor pressures of constituents may be obtained from standard reference texts or may be determined by ASTM D-2879-86 (incorporated by reference under 260.11).**				
BB 131	264.1063(i)		**Performance tests to determine if a control device achieves 95 weight percent organic emission reduction shall comply with 264.1034(c)(1) through (c)(4).**				
RECORDKEEPING REQUIREMENTS - 264.1064							
BB 132	264.1064(a)(1)		A facility subject to the provisions of this subpart shall comply with the record keeping requirements of this section.				
BB 133	264.1064(a)(2)		The facility with more than one hazardous waste management unit may comply with the record keeping requirements in one record keeping system if the system identifies each record by each hazardous waste management unit.				
BB 134	264.1064(b)		**The facility must record the following information in the operating record:**				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 135	264.1064(b)(1)		For each piece of equipment to which subpart BB of 264 applies: (i) Equipment identification number and hazardous waste management unit identification. (ii) Approximate locations within the facility. (iii) Type of equipment. (iv) Percent-by-weight total organics in the hazardous waste stream at the equipment. (v) Hazardous waste state at the equipment (e.g., gas/vapor or liquid). (vi) Method of compliance with the standard (e.g., "monthly leak detection and repair" or "equipped with dual mechanical seals").				
BB 136	264.1064(b)(2)		For facilities that comply with 264.1033(a)(2), an implementation schedule as in 264.1033(a)(2).				
BB 137	264.1064(b)(3)		Where the facility chooses to use test data to • demonstrate the organic removal efficiency or • total organic compound concentration achieved by the control device, a performance test plan as in 264.1035(b)(3).				
BB 138	264.1064(b)(4)		Documentation of compliance with 264.1060, including the detailed design documentation or performance test results in 264.1035(b)(4).				
BB 139	264.1064(c)		**When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following requirements apply:**				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 140	264.1064(c)(1)		A visible weatherproof identification attached to the leaking equipment, marked with • equipment identification number, • date evidence of leak was found in accordance with 264.1058(a), and • date of leak was detected,				
BB 141	264.1064(c)(2)		The identification on equipment, except on a valve, may be removed after it has been repaired.				
BB 142	264.1064(c)(3)		The identification on a valve may be removed after it has been monitored for 2 successive months as in 264.1057(c) and no leak has been detected during those 2 months.				
BB 143	264.1064(d)		**When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following information shall be recorded in an inspection log and shall be kept in the operating record:**				
BB 144	264.1064(d)(1)		The instrument and operator identification numbers and the equipment identification number.				
BB 145	264.1064(d)(2)		The date evidence of a potential leak was found in accordance with 264.1058(a).				
BB 146	264.1064(d)(3)		The date the leak was detected and the dates of each attempt to repair the leak.				
BB 147	264.1064(d)(4)		Repair methods applied in each attempt to repair the leak.				
BB 148	264.1064(d)(5)		"Above 10,000" if the maximum instrument reading measured by the methods in 264.1063(b) after each repair attempt is equal to or greater than 10,000 ppm.				
BB 149	264.1064(d)(6)		"Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak.				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 150	264.1064(d)(7)		Documentation supporting the delay of repair of a valve in compliance with 264.1059(c).				
BB 151	264.1064(d)(8)		The signature of the facility representative whose decision it was that repair could not be effected without a hazardous waste management unit shutdown.				
BB 152	264.1064(d)(9)		The expected date of successful repair if a leak is not repaired within 15 days.				
BB 153	264.1064(d)(10)		The date of successful repair of the leak.				
BB 154	264.1064(e)		• **Design documentation and monitoring,** • **operating, and** • **inspection information** **for each closed-vent system and control device required to comply with 264.1060 shall be** • **recorded and** • **kept up-to-date** **in the operating record as specified in 264.1035(c).** **Design documentation is specified in 264.1035(c)(1) and (c)(2) and monitoring, operating, and inspection information in 264.1035(c)(3)-(c)(8).**				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 155	264.1064(f)		**For a control device other than** • **a thermal vapor incinerator,** • **catalytic vapor incinerator,** • **flare,** • **boiler,** • **process heater,** • **condenser, or** • **carbon adsorption system,** **the Agency will specify the appropriate record keeping requirements.**				
BB 156	264.1064(g)		**The following information on equipment subject to 264.1052 through 264.1060 shall be recorded in a log in the operating record:**				
BB 157	264.1064(g)(1)		A list of identification numbers for equipment (except welded fittings) subject to this subpart.				
BB 158	264.1064(g)(2)		(i) A list of identification numbers for equipment that the facility designates for no detectable emissions (instrument reading of less than 500 ppm above background) under 264.1052(e), 264.1053(i), and 264.1057(f). (ii) The designation of this equipment as subject to 264.1052(e), 264.1053(i), or 264.1057(f) shall be signed by the facility.				
BB 159	264.1064(g)(3)		A list of equipment identification numbers for pressure relief devices required to comply with 264.1054(a).				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 160	264.1064(g)(4)		(i) The dates of each compliance test required in 264.1052(e), 264.1053(i), 264.1054, and 264.1057(f). (ii) The background level measured during each compliance test. (iii) The maximum instrument reading measured at the equipment during each compliance test.				
BB 161	264.1064(g)(5)		A list of identification numbers for equipment in vacuum service.				
BB 162	264.1064(h)		**The following information on all valves subject to 264.1057(g) and (h) shall be recorded in a log in the operating record:**				
BB 163	264.1064(h)(1)		For valves that are designated as unsafe to monitor: • a list of identification numbers, • an explanation for each valve stating why the valve is unsafe to monitor, and • the plan for monitoring each valve.				
BB 164	264.1064(h)(2)		For valves that are designated as difficult to monitor: • a list of identification numbers • an explanation for each valve stating why the valve is difficult to monitor, and • the schedule for monitoring each valve.				
BB 165	264.1064(i)		**The following information shall be recorded in the operating record for valves complying with 264.1062:**				
BB 166	264.1064(i)(1)		A schedule of monitoring.				
BB 167	264.1064(i)(2)		The percent of valves found leaking during each monitoring period.				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 168	264.1064(j)		**The following information shall be recorded in a log in the operating record:**				
BB 169	264.1064(j)(1)		Criteria required in 264.1052(d)(5)(ii) and 264.1053(e)(2) and an explanation of the design criteria.				
BB 170	264.1064(j)(2)		Any changes to these criteria and the reasons for the changes.				
BB 171	264.1064(k)		**The following information shall be recorded in a log in the operating record for use in determining exemptions:**				
BB 172	264.1064(k)(1)		An analysis determining the design capacity of the hazardous waste management unit.				
BB 173	264.1064(k)(2)		A listing of the hazardous waste influent to and effluent from each hazardous waste management unit subject to 264.1052 through 264.1060 and an analysis determining whether these hazardous wastes are heavy liquids.				
BB 174	264.1064(k)(3)		An up-to-date analysis, information, and data to determine whether or not equipment is subject to 264.1052 through 264.1060. The record shall include documentation as required by 264.1063(d)(3) when application of the knowledge of the nature of the hazardous waste stream or the process by which it was produced is used. If the facility takes any action (e.g., changing process) that could result in an increase in the total organic content of the waste contained in or contacted by equipment determined not to be subject to the requirements in 264.1052 through 264.1060, then a new determination is required.				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 175	264.1064(l)		**Records of** • **the equipment leak information required by paragraph (d) of this section and** • **the operating information required by paragraph (e) of this section** **need be kept only 3 years.**				
BB 176	264.1064(m)		The facility subject to • this subpart and • 40 CFR part 60, subpart VV, or • 40 CFR part 61, subpart V, may elect to determine compliance with this subpart by documentation either pursuant to • 264.1064, or • 40 CFR part 60 or 61, to the extent that the documentation under the regulation at 40 CFR part 60 or Part 61 duplicates the documentation required under this subpart. The documentation under 40 CFR part 60 or part 61 shall be with the operating record.				
RE8ORTING REQUIREMENTS - 264.1065							
BB 177	264.1065(a)		**The facility shall submit a semiannual report subject to the requirements of this subpart by dates specified by the Agency.** **The report shall include the following information:**				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 178	264.1065(a)(1)		The EPA identification number, name, and address of the facility.				
BB 179	264.1065(a)(2)		For each month during the semiannual reporting period: (i) The equipment identification number of each valve for which a leak was not repaired as required in 264.1057(d). (ii) The equipment identification number of each pump for which a leak was not repaired as required in 264.1052(c) and (d)(6). (iii) The equipment identification number of each compressor for which a leak was not repaired as required in 264.1053(g).				
BB 180	264.1065(a)(3)		Dates of hazardous waste management unit shutdowns that occurred within the semiannual reporting period.				
BB 181	264.1065(a)(4)		For each month during the semiannual reporting period, dates when • the control device as required by 264.1052, 264.1053, 264.1054, or 264.1055 exceeded or operated outside of the design specifications as defined in 264.1064(e) and as indicated by the control device monitoring required by 264.1060 and was not corrected within 24 hours, • the duration and cause of each exceedance, and • any corrective measures taken.				

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 182	264.1065(b)		If, during the semiannual reporting period, • leaks are repaired for (required by): valves (264.1057(d)), pumps (264.1052(c) and (d)(6)), and compressors (264.1053(g)), • and the control device does not exceed or operate outside of the design specifications as defined in 264.1064(e) for more than 24 hours, a report to the Agency is not required.				

DEFINITIONS

All terms not defined herein shall have the meaning given them in 264.1031, the Act and parts 260 - 266.

Air stripping operation A desorption operation employed to transfer one or more volatile components from a liquid mixture into a gas (air) either with or without the application of heat to the liquid.
Packed towers, spray towers, and bubble-cap, sieve, or valve-type plate towers are among the process configurations used for contacting the air and a liquid.

Bottoms receiver A container or tank used to receive and collect the heavier bottoms fractions of the distillation feed stream that remain in the liquid phase.

Closed-vent system A system that is not open to the atmosphere and that is composed of piping, connections, and, if necessary, flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to a control device.

Condenser A heat-transfer device that reduces a thermodynamic fluid from its vapor phase to its liquid phase.

Connector Flanged, screwed, welded, or other joined fittings used to connect two pipelines or a pipeline and a piece of equipment.
For the purposes of reporting and record keeping, connector means flanged fittings that are not covered by insulation or other materials that prevent location of the fittings.

Continuous recorder A data-recording device recording an instantaneous data value at least once every 15 minutes.

Control device An enclosed combustion device, vapor recovery system, or flare. Any device the primary function of which is the recovery or capture of solvents or other organics for use, reuse, or resale (e.g., a primary condenser, on a solvent recovery unit) is not a control device.

Control device shutdown The cessation of operation of a control device for any purpose.

Distillate receiver A container or tank used to receive and collect liquid material (condensed) from the overhead condenser of a distillation unit and from which the condensed liquid is pumped to larger storage tanks or other process units.

Distillation operation Operation, either batch or continuous, separating one or more feed stream(s) into two or more exit streams, each exit stream having component concentrations different from those in the feed stream(s). The separation is achieved by the redistribution of the components between the liquid and vapor phase as they approach equilibrium within the distillation unit.

Double block & bleed system Two block valves connected in series with a bleed valve or line that can vent the line between the two block valves.

Equipment Each valve, pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, or flange, and any control devices or systems required by this subpart.

Flame zone The portion of the combustion chamber in a boiler occupied by the flame envelope.

Flow indicator A device that indicates whether gas flow is present in a vent stream.

First attempt at repair To take rapid action for the purpose of stopping or reducing leakage of organic material to the atmosphere using best practices.

Fractionation operation A distillation operation or method used to separate a mixture of several volatile components of different boiling points in successive stages, each stage removing from the mixture some proportion of one of the components.

Hazardous waste management unit shutdown A work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit. An unscheduled work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit for less than 24 hours is not a hazardous waste management unit shutdown. The use of spare equipment and technically feasible bypassing of equipment without stopping operation are not hazardous waste management unit shutdowns.

Hot well A container for collecting condensate as in a steam condenser serving a vacuum-jet or steam-jet ejector.

In gas/vapor service The piece of equipment contains or contacts a hazardous waste stream that is in the gaseous state at operating conditions.

In heavy liquid service The piece of equipment is not in gas/vapor service or in light liquid service.

In light liquid service The piece of equipment contains or contacts a waste stream where the vapor pressure of one or more of the components in the stream is greater than 0.3 kilopascals (kPa) at 20 ^{o}C, the total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20 ^{o}C is equal to or greater than 20 percent by weight, and the fluid is a liquid at operating conditions.

In situ sampling systems Nonextractive samplers or in-line samplers.

In vacuum service Equipment is operating at an internal pressure that is at least 5 kPa below ambient pressure.

Malfunction Any sudden failure of a control device or a hazardous waste management unit or failure of a hazardous waste management unit to operate in a normal or usual manner, so that organic emissions are increased.

Open-ended valve or line Any valve, except pressure relief valves, having one side of the valve seat in contact with process fluid and one side open to the atmosphere, either directly or through open piping.

Pressure release The emission of materials resulting from the system pressure being greater than the set pressure of the pressure relief device.

Process heater A device that transfers heat liberated by burning fuel to fluids contained in tubes, including all fluids except water that are heated to produce steam.

Process vent Any open-ended pipe or stack that is vented to the atmosphere either directly, through a vacuum-producing system, or through a tank (e.g., distillate receiver, condenser, bottoms receiver, surge control tank, separator tank, or hot well) associated with hazardous waste distillation, fractionation, thin-film evaporation, solvent extraction, or air or steam stripping operations.

Repaired Equipment is adjusted, or otherwise altered, to eliminate a leak.

Sensor A device that measures a physical quantity or the change in a physical quantity, such as temperature, pressure, flow rate, pH, or liquid level.

Separator tank A device used for separation of two immiscible liquids.

Solvent extraction operation	An operation or method of separation in which a solid or solution is contacted with a liquid solvent (the two being mutually insoluble) to preferentially dissolve and transfer one or more components into the solvent.
Startup	The setting in operation of a hazardous waste management unit or control device for any purpose.
Steam stripping operation	A distillation operation in which vaporization of the volatile constituents of a liquid mixture takes place by the introduction of steam directly into the charge.
Surge control tank	A large-sized pipe or storage reservoir sufficient to contain the surging liquid discharge of the process tank to which it is connected.
Thin-film evaporation operation	A distillation operation that employs a heating surface consisting of a large diameter tube that may be either straight or tapered, horizontal or vertical. Liquid is spread on the tube wallby a rotating assembly of blades that maintain a close clearance from the wall or actually ride on the film of liquid on the wall.
Vapor incinerator	Any enclosed combustion device that is used for destroying organic compounds and does not extract energy in the form of steam or process heat.
Vented	Discharged through an opening, typically an open-ended pipe or stack, allowing the passage of a stream of liquids, gases, or fumes into the atmosphere. The passage of liquids, gases, or fumes is caused by mechanical means such as compressors or vacuum-producing systems or by process-re-lated means such as evaporation produced by heating and not caused by tank loading and unloading (working losses) or by natural means such as diurnal temperature changes.