

<p>APPLICATION REVIEW CHECKLIST</p> <p>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</p> <p>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart O <u>INCINERATORS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
	Shaded areas for ODEQ use only	

ITEM #	FEDERAL REGULATIONS 40 CFR'S	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
APPLICABILITY - 264.340							
I-1	264.340(a)		Apply to hazardous waste incinerators as defined in 260.10, except as 264.1 provides otherwise.				
I-2	264.340(b)		After considering the waste analysis in part B of the permit application, the Agency, in establishing the permit conditions, must exempt the applicant from all requirements of this subpart except 264.341 (waste analysis) and 264.351 (closure),				

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					YES/NO/NA	YES/NO/NA	
I-3	264.340(b)(1)		<p>If the Agency finds that the waste to be burned is:</p> <p>(i) A listed waste in 261 subpart D solely because it is ignitable (Hazard Code I), corrosive (Hazard Code C), or both; or</p> <p>(ii) A listed waste in 261 subpart D solely because it is reactive (Hazard Code R) other than those listed in 261.23(a)(4) and (5), and will not be burned when other hazardous wastes are present in the combustion zone; or</p> <p>(iii) A characteristic waste under 261 subpart C solely because it is ignitable, corrosive, or both; or</p> <p>(iv) A hazardous waste solely because it is reactive as described by 261.23(a)(1), (2), (3), (6), (7) and (8), and will not be burned when other hazardous wastes are present in the combustion zone; and</p>				
I-4	264.340(b)(2)		If the waste analysis shows that the waste contains none of hazardous constituents listed in 261, appendix VIII, which would be expected in the waste.				
I-5	264.340(c)		If the waste to be burned is as described in paragraphs (b)(1)(i), (ii), (iii), or (iv) of this section and contains insignificant concentrations of the hazardous constituents listed in 261, Appendix VIII, then the Agency, in establishing the permit conditions, may exempt the applicant from all requirements of this subpart except 264.341 (waste analysis) and 264.351 (closure), after considering the waste analysis in Part B of the permit application, unless the waste poses a threat to human health or the environment when burned.				
I-6	264.340(d)		An incinerator may conduct trial burns subject only to the requirements of 270.62 (short term and incinerator permits)				

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WASTE ANALYSIS - 264.341							
I-7	264.341(a)		As a portion of the trial burn plan, the facility must have included a waste feed analysis to provide all information required by 270.62(b) or 270.19. New incinerators must provide the information required by 270.62(c) or 270.19.				
I-8	264.341(b)		Throughout normal operation, the facility must conduct waste analysis to verify that waste feed is within the physical and chemical composition limits specified in the permit.				
PRINCIPAL ORGANIC HAZARDOUS CONSTITUENTS (POHCs) - 264.342							
I-9	264.342(a)		POHCs in the waste feed must be treated to the extent required by the performance standard (264.343).				
I-10	264.342(b)(1)		One or more POHCs will be specified in the permit for each waste feed to be burned. This specification will be based on the difficulty of incineration and concentration or mass in the waste feed, considering waste analyses and trial burns or data submitted with application's part B. Organic constituents that represent the greatest difficulty of incineration will be most likely be designated as POHCs. Constituents are more likely to be designated as POHCs if they are present in large quantities or concentrations in the waste.				
I-11	264.342(b)(2)		Trial POHCs will be designated for performance of trial burns in accordance with 270.62 for obtaining trial burn permits.				

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PERFORMANCE STANDARDS - 264.343							
An incinerator burning hazardous waste must be designed, constructed, and maintained so that, when operated under 264.345, it will meet the following performance standards:							
I-12	264.343(a)(1)		<p>Except as provided in paragraph (a)(2) of this section, an incinerator must achieve a destruction and removal efficiency (DRE) of 99.99% for each POHCs for each waste feed. DRE is determined as:</p> $DRE = [(Win - Wout)/Win] \times 100\%$ <p>where:</p> <p>Win = mass feed rate of one POHC in the waste feed</p> <p>Wout = mass emission rate of the same POHC in emissions</p>				
I-13	264.343(a)(2)		<p>An incinerator burning F020, F021, F022, F023, F026, or F027 must achieve DRE of 99.9999% for each designated POHC.</p> <p>This performance must be demonstrated on POHCs that more difficult to incinerate than tetra-, penta-, hexachlorodibenzo-p-dioxins, and dibenzofurans.</p> <p>The facility must notify the Agency of the intention to incinerate F020, F021, F022, F023, F026, or F027.</p>				
I-14	264.343(b)		An incinerator, producing emissions of more than 1.8 kg/hr, must control hydrogen chloride (HCl) emissions such that the emission is no greater than the larger of either 1.8 kg/hr or 1% of the HCl in the stack gas prior to entering any pollution control equipment.				

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I-15	264.343(c)		<p>An incinerator must not emit particulate matter in excess of 180 mg/dry m³ when corrected for oxygen in the stack gas using the formula:</p> $P_c = P_m \times [14/(21-Y)]$ <p>where</p> <p>P_c: corrected concentration of particulate matter,</p> <p>P_m: measured concentration of particulate matter,</p> <p>Y: measured concentration of oxygen in the stack gas, using the Orsat method, in part 60, appendix A (method 3).</p> <p>This correction is to be used by all incinerators except under oxygen enrichment conditions for which the Agency will select an appropriate correction procedure to be specified in the permit.</p>				
I-16	264.343(d)		<p>For enforcement, compliance with permit requirements under 264.345 will be regarded as compliance with this section.</p> <p>However, evidence that compliance with those permit conditions is insufficient to comply with the performance requirements of this section may be "information" justifying modification, revocation, or reissuance of a permit under 270.41.</p>				
HAZARDOUS WASTE INCINERATOR PERMITS - 264.344							
I-17	264.344(a)		The facility may burn only wastes specified in the permit and only under operating conditions specified for those wastes under 264.345, except:				
I-18	264.344(a)(1)		In approved trial burns under 270.62; or				

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					YES/NO/NA	YES/NO/NA	
I-19	264.344(a)(2)		Under exemptions created by 264.340.				
I-20	264.344(b)		Other hazardous wastes may be burned only after operating conditions have been specified in the new permit or a permit modification. Operating requirements for new wastes may be based on trial burns or alternate data included with Part B of the permit application under 270.19				
I-21	264.344(c)		The permit for a new incinerator must establish appropriate conditions for each applicable requirement, including but not limited to 263.345, sufficient to comply with the following standards:				
I-22	264.344(c)(1)		For the period beginning with introduction of waste to incinerate and ending with initiation of trial burn, and only for the minimum time required in (c)(2) of this section, not to exceed 720 hours operating time, the operating requirements must be in compliance with the performance standards of 264.343, based on the Agency's engineering judgment. The Agency may extend once an additional 720 hours when good cause is demonstrated by the applicant.				
I-23	264.344(c)(2)		For the trial burn, the operating requirements must be in compliance with 264.343 and must be in accordance with the approved trial burn plan;				

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I-24	264.344(c)(3)		For the period immediately after the trial burn, and sample analysis period, data computation, and submission of trial burn results and permit modification, the operating requirements must be in compliance with the performance standards of 264.343, based on the Agency's engineering judgment.				
I-25	264.344(c)(4)		For the remaining duration of the permit, the operating requirements must be those demonstrated in the trial burn or by alternate data under 270.19(c) to be in compliance with 264.343.				
OPERATING REQUIREMENTS - 264.345							
I-26	264.345(a)		An incinerator must be operated with operating requirements as specified in the permit. These will be case specific based on trial burn or alternate data under 264.344(b) to comply with performance standards of 264.343.				
I-27	264.345(b)		Each set of operating requirements will specify the composition of the waste feed. For each waste feed, the permit operation limits will include the following conditions:				
I-28	264.345(b)(1)		Carbon monoxide level in the stack exhaust gas;				
I-29	264.345(b)(2)		Waste feed rate;				
I-30	264.345(b)(3)		Combustion temperature;				

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I-31	264.345(b)(4)		An indicator of combustion gas velocity;				
I-32	264.345(b)(5)		Allowable variations in system design or operating procedure; and				
I-33	264.345(b)(6)		Other operating requirements as necessary to ensure the performance standards of 264.343 are met.				
I-34	264.345(c)		During start-up and shut down, hazardous waste (except exemption under 264.340) must not be fed into the incinerator unless the incinerator is operating within the conditions of operations in the permit.				
I-35	264.345(d)		Fugitive emissions from the combustion zone must be controlled by:				
I-36	264.345(d)(1)		Keeping the combustion zone totally sealed against fugitive emissions; or				
I-37	264.345(d)(2)		Maintaining a combustion zone pressure lower than atmospheric pressure; or				
I-38	264.345(d)(3)		An alternate means of control demonstrated (with Part B application) to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure.				
I-39	264.345(e)		An incinerator must be operated with an automatic waste feed cutoff when operating conditions deviate from limits established in paragraph (a) of this section.				
I-40	264.345(f)		An incinerator must cease operation when changes in waste feed, incinerator design, or operating conditions exceed limits in the permit.				
[RESERVED] - 264.346							

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MONITORING AND INSPECTIONS - 264.347							
I-41	264.347(a)		The facility must conduct, at the minimum, the following monitoring while incinerating hazardous waste:				
I-42	264.347(a)(1)		Combustion temperature, waste feed rate, and gas velocity must be monitored continuously.				
I-43	264.347(a)(2)		Carbon monoxide must be monitored continuously downstream of the combustion zone and prior to release to the atmosphere.				
I-44	264.347(a)(3)		Upon the request of the Agency, sampling and analysis of the waste and emissions must be conducted to verify that the operating requirements in the permit achieve the performance standards of 264.343.				
I-45	264.347(b)		The incinerator and associated equipment (pumps, valves, etc.) must be inspected daily for leaks, spills, fugitive emissions, and tampering.				
I-46	264.347(c)		The emergency waste feed cutoff and associated alarms must be tested weekly unless an adequate lesser frequency is approved. At a minimum, operational testing must be conducted at least monthly.				
I-47	264.347(d)		The monitoring and inspection data must be recorded and the records must be placed in the operating log required by 264.73				
[Reserved] - 264.348 - 264.350							
I-48 CLOSURE - 264.351							
The facility must clean close, or close to an acceptable health-risk based level determined by the Agency.							

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