



Linn County Public Health Air Quality Division
Air Quality Construction Permit for a Used Oil Furnace

Table with columns: Permit No., Project No., Description, Date, Testing. Includes Plant Number field and signature line for Air Pollution Control Officer. Vertical label: Department Use Only.

Permit Holder

Company: _____

Contact Person: _____

Responsible Party: _____

(name)

(title)

(street)

(city, state, zip)

(telephone)

(e-mail address)

Permitted Equipment

Emission Unit and Control Equipment:

Table with 4 columns: EP ID, EU ID, Description, Maximum Rated Capacity. Row 1: Used Oil-fired Furnace, Btu/hr, gal/hr.

Equipment Location: _____ (street)

_____ (city, state, zip)

Does your company own or operate another facility adjacent or contiguous to this one?

Yes No

If yes, identify the facility: _____

TYPE OF EQUIPMENT BEING PERMITTED

This permit is only applicable to a "used oil furnace"¹ that is located at an area source of Hazardous Air Pollutants (HAP)² not otherwise excluded. The owner or operator is allowed to add, remove, and modify emission units, or change throughput or operations at this source without modifying this permit so long as the source continues to meet the emission limits and the operating limits in Condition 1 and Condition 5 of this permit. If any proposed change at this source would cause an exceedance of any emission limit or operating limit in this permit, the owner or operator must first obtain proper air quality construction permits.

¹ A used oil furnace is any stationary combustion source that utilizes used oil as a primary or secondary source of heat. Per 40 CFR §279.1, used oil is "any oil that has been refined from crude oil, or any synthetic oil, that has been used and as a result of such use is contaminated by physical or chemical impurities."

² An area source of HAP is a stationary source that has the potential to emit of less than 10 tons per year of any individual HAP and less than 25 tons per year of total HAP.

Exclusions

The following used oil furnaces shall not be covered by this permit:

- A. Any plant that is located at a major source of HAP is subject to rule 22.4 (455B) (special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)), or is subject to LCCO Sec. 10-58(l) (Emissions Offsets for Non-Attainment Designated Areas).
 - B. Emission units not used for the combustion of used oil, including but not limited to, separate fuel storage tanks. The owner or operator of this emission unit must use an applicable exemption from LCCO Sec. 10-58 or obtain a construction permit as specified in LCCO Sec. 10-55.
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PERMITTEE CERTIFICATION

I certify that, based on information and belief formed after reasonable inquiry, the enclosed documents, including the attachments, are true, accurate, and complete and that legal entitlement to install and operate the equipment covered by the permit application and on the property identified in the permit application has been obtained.

I certify that this permit, as drafted, is for (and only for) a "used oil furnace" not otherwise "excluded" as noted above. I certify that there are no physical or chemical characteristics or pollutants in the air contaminants emitted for this facility which are atypical of this type of facility.

I certify that I have read this permit.

I certify that the requirements of 40 CFR Part 279, Standards for the Management of Used Oil, will be met, if applicable, through the testing and recordkeeping requirements specified in Condition 5 of this permit. I certify that all other terms and conditions of this permit will be met beginning with the issuance date of the permit and all times thereafter.

I certify that the terms and conditions of this permit will be met at all times.

_____ (Responsible Party – Signature)

_____ (Title) _____ (Date)

PERMIT CONDITIONS

1. Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ¹	tons/yr ²	Other Limits	Reference/Basis
Particulate Matter (PM) – State	NA	NA	0.6 lb/MMBtu	LCCO Sec. 10-61(b)(2)
Opacity	NA	NA	20% ^{3,4}	LCCO Sec. 10-60(a)
Sulfur Dioxide (SO ₂)	NA	NA	1.5 lb/MMBtu	LCCO Sec. 10-65(1)"b"

¹ The emission limit is expressed as the average of three (3) runs.

² The emission limit is based on a twelve (12) month rolling total.

³ The emission limit is based on a six (6) minute average.

⁴ The observation of **visible emissions** of air contaminants as defined in LCCO Sec. 10-55 will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the visible emissions. If visible emissions continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

2. Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	None	NA	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
Opacity	None	NA	1 hour	40 CFR 60, Appendix A, Method 9
SO ₂	None	NA	1 hour	40 CFR 60, Appendix A, Method 6C
Arsenic	Analytical test ¹	NA	NA	EPA Method 6010C
Cadmium	Analytical test ¹	NA	NA	EPA Method 6010C
Chromium	Analytical test ¹	NA	NA	EPA Method 6010C
Lead	Analytical test ¹	NA	NA	EPA Method 6010C
PCBs	Analytical test ¹	NA	NA	EPA Method 8082
Flash Point	Analytical test ¹	NA	NA	ASTM D93
Total Halogens	Analytical test ¹	NA	NA	EPA Method 9075M and 9214M

¹ If any of the items listed in Conditions 5.C are not met, Linn County Lifts shall complete the analytical testing listed for arsenic, cadmium, chromium, lead, polychlorinated biphenyls (PCBs), flash point, and total halogens.

If an initial stack test is specified in the "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

If any additional stack testing beyond an initial test (i.e. quarterly, semi-annual, annual, etc.) is required in "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 as specified in the "Compliance Demonstration Table." See Conditions 12.A.(4) and 12.B.(5) for notification and reporting requirements.

If stack testing is required, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" unless another testing methodology is approved by the Department prior to testing.

2. Compliance Demonstration(s) (Continued)

Each emissions compliance test must be approved by the Department. Unless otherwise specified by the Department, each test shall consist of three (3) separate runs. The arithmetic mean of three (3) acceptable test runs shall apply for compliance, unless otherwise indicated by the Department.

Per LCCO Sec. 10-70(e)(2), at the Department's request, a pretest meeting shall be held not later than five (5) days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the Department no later than fifteen (15) days before the owner or operator conducts the compliance demonstration. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. A representative of the Department shall be allowed to witness the test(s). The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

The owner shall be responsible for the installation and maintenance of test ports. The unit(s) being sampled shall be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

3. Emission Point Characteristics

The stack parameters of this used oil furnace shall conform to the following:

- A. Pursuant to 40 CFR §279.23(c) the combustion gases from the furnace must be vented to the ambient air.

4. Federal Standards

- A. New Source Performance Standards (NSPS):

This emission unit is not subject to any NSPS subparts at this time as there are no applicable subparts for its source category.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

- B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

This emission unit is not subject to any NESHAP subparts at this time as there are no applicable subparts for its source category.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

5. Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of three (3) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The used oil furnace shall be operated and maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the furnace.
- B. Fuels combusted in the used oil furnace shall be limited to: used crankcase oils; ATF; hydraulic fluid; No. 2 fuel oil and diesel fuel; or other fuels explicitly approved by the manufacturer.
- C. Any used oil combusted at the facility must not exceed the limits specified in Table 1 of 40 CFR §279.11, as amended on May 3, 1993 (reproduced below), using analytical methods pursuant to 40 CFR Part 279.

Table 1 – Used Oil not Exceeding any Allowable Level Shown Below is not Subject to this Part when Burned for Energy Power¹

Constituent / Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Flash Point	100 °F minimum
Total Halogens	4,000 ppm maximum ²

¹ The allowable levels do not apply to mixtures of used oil and hazardous waste that continue to be regulated as hazardous waste (see 40 CFR §279.10(b)).

² Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR §279.10(b)(1). Such used oil is subject to Subpart H of Part 266 [of Title 40], rather than this [Part 279] when burned for energy recovery, unless the presumption of mixing can be successfully rebutted.

Pursuant to 40 CFR §279.23 and a February 4, 1986 EPA letter to German Auto Service, Inc., facilities combusting used oil may do so without testing for the toxic materials listed in Table 1 of 40 CFR §279.11 (reproduced above), provided the following conditions are met:

1. The used oil is generated by servicing vehicles or accepted from "household do-it-yourselfer used oil generators" (used oil cannot be combusted if accepted from another shop or used oil collector without testing);
2. The used oil is not comingled with wastes, such as solvents;
3. The space heater cannot exceed a maximum heating capacity of 500,000 Btu/hr; and
4. The flue gases are vented to the outdoors (e.g. through a chimney or stack).

If any of these conditions are not met, testing of the used oil shall be completed using the methods listed in Condition 2 of this permit before combustion is permitted.

- D. Any used oil combusted in the used oil furnace with a total halogen concentration of $\geq 1,000$ ppm and $\leq 4,000$ ppm must be properly rebutted as not containing a listed halogenated hazardous waste, per 40 CFR §279.63.
- E. Any used oil combusted in the used oil furnace shall not exceed 2 ppm of polychlorinated biphenyls (PCBs) using methods specified in 40 CFR §761.20(e)(2).
- F. The burning of used oil from "household do-it-yourselfer used oil generators" and/or oil generated on-site by the owner or operator does not require the owner or operator to retain the records outlined below. Otherwise, used oil burners shall keep a record of each oil shipment accepted for burning in the form of a log, invoice manifest, bill of lading, or other shipping documents, pursuant to 40 CFR §279.65. Records for each shipment must be maintained for at least three years and shall include the following information:
 1. The name and address of the transporter who delivered the used oil to the burner;
 2. The name and address of the generator or process/re-refiner from whom the used oil was sent to the burner;
 3. The EPA identification number of the transporter who delivered the used oil to the burner;
 4. The EPA identification number (if applicable) of the generator or processor/re-refiner from whom the used oil was sent to the burner;

5. Operating Requirements with Associated Monitoring and Recordkeeping (Continued)

5. The quantity of used oil accepted; and
 6. The date of acceptance.
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6. Continuous Emission Monitoring Systems (CEMS)

Continuous emission monitoring is not required by this permit at this time.

7. Department Review

This permit is issued under the authority of Linn County Code of Ordinances (LCCO) Article III Sec. 10-58. The proposed equipment has been evaluated for conformance with LCCO Chapter 10, the Iowa Code Chapter 455B; 567 IAC Chapters 20 – 35; and 40 Code of Federal Regulations (CFR) Parts 51, 52, 60, 61, and 63 and has the potential to comply. This permit is issued based on information submitted by the applicant. Any misinformation, false statements or misrepresentations by the applicant or by the applicant's representative(s) shall cause this permit to be void.

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. The Department assumes no liability, directly or indirectly, for any loss due to damage to persons or property caused by, resulting from, or arising out of the design, installation, maintenance or operation of the proposed equipment.

8. Owner and Operator Responsibility

This permit is for the construction and operation of specific emission unit(s), control equipment, and emission point as described in this permit and in the application for this permit. The permit holder, owner, and operator of the facility shall assure that the installation of the equipment listed in this permit conforms to the design in the application (i.e. type, maximum rated capacity, etc.). No person shall construct, install, reconstruct or alter this emission unit(s), control equipment, or emission point without the required amended permit.

Any owner or operator of the specified emission unit(s), control equipment, or emission point, including any person who becomes an owner or operator subsequent to the date on which this permit is issued, is responsible for assuring that the installation, operation, and maintenance of the equipment listed in this permit is in compliance with the provisions of this permit and all other applicable requirements and that adequate operation and maintenance is provided to ensure that no condition of air pollution is created.

9. Transferability

Unless the equipment is portable, this permit is not transferable from one location to another or from one piece of equipment to another. See Condition 12.A.(2) for notification requirements for relocating portable equipment (LCCO Sec. 10-58(g)(1)).

Additionally, this permit is not transferable from one owner to another. See Condition 12.A.(3) for notification requirements for ownership changes (LCCO Sec. 10-58(g)(2)).

10. Construction

A. General Requirements:

It is the owner's responsibility to ensure that construction conforms to the final plans and specifications as submitted.

In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. If a proposed project is not timely completed, the owner or operator shall seek a permit amendment in order to revert back to the most recent previous version of the permit. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

10. Construction (Continued)

The permit or amendment shall become void if the construction or implementation of the proposed project, as it affects each emission point permitted herein, is not completed within ninety (90) days of the expiration date. If, after this time, a permit to operate has not been obtained, the said equipment shall be shut down and not operated until such time as the Air Pollution Control Officer grants a permit to operate the equipment. Extensions of the ninety (90) day adjustment period may be granted by the Air Pollution Control Officer for good cause.

B. Changes to Plans and Specifications:

The owner or operator shall amend this permit or amendment prior to startup of the equipment if:

- (1) Any changes are made to the final plans and specifications submitted for the proposed project; or
- (2) This permit becomes void.

Changes to the final plans and specification shall include changes to plans and specifications for permitted equipment and control equipment and the specified operation thereof.

C. Amended Permits:

The owner or operator may continue to act under the provisions of the previous permit for the affected emission unit(s) and emission point, together with any previous amendment to the permit, until one of the following conditions occurs:

- (1) The proposed project authorized by this amendment is completed as it affects the emission unit(s) and emission point permitted herein; or
- (2) This current amendment becomes void.

11. Excess Emissions

Per LCCO Sec. 10-67(a)(1), excess emissions during a period of startup, shutdown, or cleaning of control equipment are not a violation of the emission standard if it is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions except when another regulation applicable to the unit or process provides otherwise. Cleaning of control equipment, which does not require the shutdown of process equipment, shall be limited to one (1) six-minute period per one (1) hour period.

An incident of excess emissions other than the above is a violation and may be subject to criminal penalties according to LCCO Sec. 10-77(8). If excess emissions are occurring, either the control equipment causing the excess shall be repaired in an expeditious manner, or the process generating the emissions shall be shutdown within a reasonable period of time, as specified in LCCO Sec. 10-67.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person within eight (8) hours of, or at the start of, the first working day following the onset of the incident [See Permit Condition 12.B.(1)]. A written report of an incident of excess emissions shall be submitted as a follow-up to all required initial reports within seven (7) days of the onset of the upset condition [See Permit Condition 12.B.(2)].

12. Notification, Reporting, and Recordkeeping

A. The owner or operator shall furnish the Department the following written notifications:

- (1) Start of Construction Notice / Equipment Start-up Notice
 - (a) The date construction or modification is initiated postmarked within thirty (30) days following initiation of construction or modification.
 - (b) The actual date of startup, postmarked within fifteen (15) days following the start of operation.
- (2) Per LCCO Sec. 10-58(e) when portable equipment for which a permit has been issued is to be transferred from one location to another, the Department shall be notified:
 - (a) At least fourteen (14) days before equipment relocation if the equipment will be located in a nonattainment area for the National Ambient Air Quality Standards (NAAQS) or a maintenance area for the NAAQS.
 - (b) At least seven (7) days before equipment relocation.

12. Notification, Reporting, and Recordkeeping (Continued)

- (3) Per LCCO Sec. 10-58(e)(3), a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall include the following information:
- The date of ownership change; the name, address, and telephone number of the responsible official, the contact person, the owner of the equipment both before and after the ownership change; the permit to operate number(s) of the equipment changing ownership; and permit to operate application form(s) for each piece of equipment and applicable permit filing fees pursuant to LCCO Sec. 10-59(d).
- (4) Unless specified per a federal regulation, the owner or the owner's authorized agent shall notify the Department in writing not less than fifteen (15) days before a required test or performance evaluation of a continuous emission monitor [LCCO Sec. 10-70(e)]. The notification shall include:
- The time; the place; the name of the person who will conduct the tests; and other information as required by the Department.

If the owner or operator does not provide timely notice to the Department, the Department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with the applicable rules or permit conditions. Upon written request, the Department may allow a notification period of less than fifteen (15) days.

- B. The owner or operator shall furnish the Department with the following reports:
- (1) Per LCCO Sec. 10-67(a)(2), an incident of excess emissions as defined in LCCO Sec. 10-55 shall be reported within eight (8) hours or at the start of the first working day following the onset of the incident. The report may be made by electronic mail, in person or by telephone.
 - (2) Per LCCO Sec. 10-67(a)(3), a written report of an incident of excess emissions as defined in LCCO Sec. 10-55 shall be submitted as a follow-up to all required initial reports to the Department within seven (7) days of the onset of the upset condition.
 - (3) Operation of this emission unit(s) or control equipment outside of those operating parameters specified in Permit Condition 5 in accordance to the schedule set forth in LCCO Sec. 10-67.
 - (4) Per LCCO Sec. 10-70(d), the owner or operator of any facility required to install a continuous monitoring system or systems shall provide quarterly reports to the Director, no later than thirty (30) calendar days following the end of the calendar quarter, on forms provided by the Director.
 - (5) Per LCCO Sec. 10-70(e)(2), a written compliance demonstration report for each compliance testing event, whether successful or not, postmarked not later than six (6) weeks after the completion of the test period unless other regulations provide for other notification requirements. In that case, the more stringent reporting requirement shall be met.
- C. All data, records, reports, documentation, construction plans, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives, for a minimum of three (3) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.)
- D. Information regarding this permit including change in ownership and permit correspondence should be sent to the following address:

Air Quality Division
Linn County Public Health
1020 6th Street SE
Cedar Rapids, IA 52401
Telephone: (319) 892-6000; Fax: (319) 892-6099

- E. Information regarding this permit including stack testing correspondence, and reports and notifications should be sent to the address listed in D. or the following email address:

ComplianceReporting-Air@linncounty.org

END OF PERMIT