



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
HAMILTON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-04213

DATE: 6/17/2004

Northern Hills Oil Company Inc
Richard Schwab
PO Box 31467
Cincinnati, OH 45231

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 6/17/2004
Effective Date: 6/17/2004**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-04213

Application Number: 14-04213
APS Premise Number: 1431393170
Permit Fee: **\$0**
Name of Facility: Northern Hills Oil Company Inc
Person to Contact: Richard Schwab
Address: PO Box 31467
Cincinnati, OH 45231

Location of proposed air contaminant source(s) [emissions unit(s)]:
**5513 Vine Street
Cincinnati Ohio, Ohio**

Description of proposed emissions unit(s):
Administrative Modification to the oil recycling process.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.


Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Northern Hills Oil Company Inc
PTI Application: 14-04213
Modification Issued: 6/17/2004

Facility ID: 1431393170

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

Northern Hills Oil Company Inc
 PTI Application: 14-04213
 Modification Issued: 6/17/2004

Facility ID: 1431393170

modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only) TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	0.18
SO ₂	0.01
NO _x	2.28
CO	1.91
OC	0.98

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	<u>Applicable Rules/Requirements</u>	OAC rule 3745-18-06(A)
P001 - Oil/Water Separator Process Modification	OAC rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B)
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-10(B)	

North

PTI A

Modification Issued: 6/17/2004

Emissions Unit ID: P001

Applicable Emissions
Limitations/Control Measures

Process emissions:

4.0 lbs OC/day, 0.73 TPY OC

Natural gas combustion emissions:

0.0076 lb PM*/MMBtu, 0.18 TPY

PM*

0.07 lb/day SO₂, 0.01 TPY SO₂

12.6 lbs/day NO_x, 2.28 TPY NO_x

10.6 lbs/day CO, 1.91 TPY CO

1.4 lbs OC/day, 0.25 TPY OC

*PM = PM₁₀

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-23-06(B).

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Exempt

See term and condition A.2.c

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the throughput limitation, visible emissions limitation, mass emission limitations and the use of natural gas.
- 2.b The daily emissions limitations outlined for the combustion unit are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.c The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

B. Operational Restrictions

- 1. This emissions unit shall utilize only natural gas as fuel.
- 2. The maximum daily production rate of oil/wastewater for this emissions unit shall not exceed 20,000 gallons per day.

C. Monitoring and/or Record keeping Requirements

- 1. The permittee shall maintain monthly records of the type and total amount of fuel burned in this emissions unit.
- 2. The permittee shall maintain daily records of the amount of oil/wastewater throughput, in gallons for this emissions unit.

D. Reporting Requirements

- 1. The permittee shall notify the Hamilton County Department of Environmental Services of any day in which any fuel other than natural gas is combusted in this emissions unit. The permittee shall submit reports which identify the exceedances, as well as corrective actions that were taken to achieve compliance. This report shall be submitted within 30 days after the exceedance occurs.
- 2. The permittee shall notify the Hamilton County Department of Environmental Services of any day in which the throughput limitation of 20,000 gallons of oil/wastewater per day is exceeded for this emissions unit. The permittee shall submit reports which identify the exceedances, as well as corrective actions that were taken to achieve compliance. This report shall be submitted within

30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the visible emissions limitation stated in term and condition A.1. shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the operational restriction specified in term and condition B.1. shall be demonstrated by the record keeping requirements specified in term and condition C.1 and the reporting requirement in term and condition D.1.
3. Compliance with the operational restriction specified in term and condition B.2. shall be demonstrated by the record keeping requirements specified in term and condition C.2 and the reporting requirement in term and condition D.2.
4. Compliance with the combustion-related mass emission limitations specified in this permit shall be determined in accordance with the following methods:

Emission Limitations-

0.0076 lb of PM*/MMBtu of actual heat input

0.18 TPY of PM*

* PM = PM₁₀

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs total PM/MM cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.1. Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor specified above times the actual annual gas usage from the reports in term and condition C.1.

Emission Limitations-

0.07 lb of SO₂/day

0.01 TPY of SO₂

Applicable compliance method when burning natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning

Emissions Unit ID: **P001**

capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lbs SO₂/MM cu. ft, and then multiplying by 24 hours/day.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/day limitations specified in A.1. Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor specified above times the actual annual gas usage from the reports in term and condition C.1.

Emission Limitations-

12.6 lbs of NO_x/day2.28 TPY of NO_x

Applicable compliance method when burning natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/MM cu. ft, and then multiplying by 24 hours/day.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/day limitations specified in A.1. Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor specified above times the actual annual gas usage from the reports in term and condition C.1.

Emission Limitations-

10.6 lbs of CO/day

1.91 TPY of CO

Applicable compliance method when burning natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/MM cu. ft, and then multiplying by 24 hours/day.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/day limitations specified in A.1. Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor specified above times the actual annual gas usage from the reports in term and condition C.1.

Emission Limitations-

1.4 lbs of OC/day

0.25 TPY of OC

Applicable compliance method when burning natural gas-

Modification Issued: 6/17/2004

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs VOC/MM cu. ft, and then multiplying by 24 hours/day.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/day limitations specified in A.1. Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor specified above times the actual annual gas usage from the reports in term and condition C.1.

5. Emission Limitations- non-combustion process emissions
4.0 lbs of OC/day
0.73 TPY of OC

Compliance with the OC emission limitations in Section A.1. for the process shall be determined by using the emissions factors found in AP-42, Table 5.1-2 for Petroleum Refining, January 1995 times the maximum daily throughput.

Compliance with the annual emission limitation shall be calculated by using the emission factor specified above times the actual annual throughput from the reports in term and condition C.2.

F. Miscellaneous Requirements

1. The terms and conditions of this permit shall supercede permit to install PTI 14-04213 as issued on October 9, 1996.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T013 - 15,000 gallon fixed roof wastewater storage tank	OAC rule 3745-31-05(A)(3)	0.00014 TPY VOC
	OAC rule 3745-21-09(L)	Exempt
	40 CFR Part 60, Subpart Kb	Exempt

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of submerged fill and minimal emissions.
- 2.b The annual emission limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records or reports are required to demonstrate compliance with these limits.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

None

D. Reporting Requirements

None

E. Testing Requirements

1. Compliance with the emissions limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI 14-04213 dated September 3, 1996.

F. Miscellaneous Requirements

1. The terms and conditions of this permit shall supercede permit to install PTI 14-04213 as issued on October 9, 1996.