State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
LORAIN COUNTY

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: 02-21526
Fac ID: 0247000554
DATE: 4/6/2006

C and S Limestone, Ltd.
Ralph Kyanko
13315 Hawke Rd.
Columbia Station, OH 44028

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: **USEPA** **NEDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 4/6/2006**
Terms and Conditions	**Effective Date: 4/6/2006**

FINAL PERMIT TO INSTALL 02-21526

Application Number:	02-21526
Facility ID:	0247000554
Permit Fee:	**$900**
Name of Facility:	C and S Limestone, Ltd.
Person to Contact:	Ralph Kyanko
Address:	13315 Hawke Rd. Columbia Station, OH 44028

Location of proposed air contaminant source(s) [emissions unit(s)]:
13315 Hawke Rd.
Columbia Station, **Ohio**

Description of proposed emissions unit(s):
Hot mix asphalt plant.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit 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 emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Joseph P. Koncelik

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 recordkeeping 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 recordkeeping 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 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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(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

Pollutant	Tons Per Year
PE/PM10	12.89
NOx	18.98
SO2	32.43
CO	74.94

VOC	84.46

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	Applicable Rules/Requirements	
P902 - portable 300 TPH counter-flow drum-mix hot-mix asphalt plant, controlled by a baghouse The terms and conditions of this PTI supercede those for P902 only in PTI 13-1552, issued on May 14, 1986.	OAC rule 3745-31-05(A)(3)	OAC rule 3745-31-05(C)

	Applicable Emissions Limitations/Control Measures	See sections A.2.a-m below.
	<u>Stack Emissions:</u>	<u>Stack Emissions:</u>
	Nitrogen oxides (NOx) emissions shall not exceed 18.98 lbs/hr.	NOx emissions shall not exceed 18.98 tons per rolling, 12-month period.
	Sulfur Dioxide (SO_2) emissions shall not exceed 32.43 lbs/hr.	SO_2 emissions shall not exceed 32.43 tons per rolling, 12-month period.
	Carbon monoxide (CO) emissions shall not exceed 74.18 lbs/hr.	CO emissions shall not exceed 74.18 tons per rolling, 12-month period.
	Volatile organic compound (VOC) emissions shall not exceed 79.70 lbs/hr.	VOC emissions shall not exceed 79.70 tons per rolling, 12-month period.
	Particulate emissions (PE) shall not exceed 0.030 gr/dscf of total exhaust gases.	PE shall not exceed 8.70 tons per rolling, 12-month period.
OAC rule 3745-23-06(B)		<u>Asphalt Load-out Emissions:</u>
OAC rule 3745-21-08(B)	Arsenic, cadmium, chromium, and lead emissions are limited by the fuel specifications in A.2.b below.	Emissions from load-out operations shall not exceed 0.41 tons of CO per rolling, 12-month period, 0.16 tons of PE per rolling, 12-month period and 1.16 tons of VOC per rolling, 12-month period.
OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-17-07(B) OAC rule 3745-17-08 OAC rule 3745-18-06(E) 40 CFR, Part 60, Subpart I	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).	<u>Asphalt Silo Filling Emissions:</u> Emissions from silo filling operations shall not exceed 0.35 tons of CO per rolling, 12-month period, 0.18 tons of PE per rolling, 12-month period and 3.60 tons of VOC per rolling, 12-month period.

Cold End Fugitive Dust Emissions:

Emissions of fugitive dust associated with the weigh hopper loading, aggregate transfer operations and sand transfer operations shall not exceed 3.85 tons of PE per rolling, 12-month period.

See section A.2.k.

See section A.2.l.

The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a The permittee shall ensure that the baghouse is operated with sufficient air volume to eliminate visible fugitive emissions from the rotary drum.

2.b All on-spec used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property	Allowable Specifications
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
PCB's	50 ppm, maximum
total halogens	4,000 ppm maximum
mercury	1 ppm, maximum
flash point	100 degrees F, minimum
heat content	135,000 Btu/gallon, minimum

2.c 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 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1,000 ppm of total halogens (but less than 4,000 ppm, maximum) only if the supplier ["marketer" in 40 CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

2.d All number 2 and on-spec used oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5%, by weight.

2.e All number 4 fuel oil burned in this emissions unit shall have a sulfur content equal to or less than 0.8%, by weight.

2.f Visible particulate emissions from the stack shall not exceed 20 percent opacity, as a three-minute average.

2.g Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see section A.2.a).

2.h Visible emissions of fugitive dust (from areas other than the rotary drum) shall be less than or equal to 10 percent opacity, as a three-minute average.

2.i The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the aggregate storage bins.

2.j The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.

2.k The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

2.l The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 1 to 10 inches of water column while the emissions unit is in operation.

2. The permittee may not receive or burn any used oil which does not meet the specifications listed in A.2.b of this permit without first obtaining a permit to install that authorizes the burning of off-specification used oil. The burning of off-specification used oil is subject to OAC rules 3745-279-60 through 67.

3. The permitted has requested a federally enforceable limit on asphalt produced in order to restrict the federally enforceable potential to emit. The permittee shall not produce more than 600,000 tons per year of asphalt.

4. The permittee shall operate and maintain the fuel burner in accordance with the manufacturer’s recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for CO and NOx.

5. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials.

6. The permittee shall only burn natural gas, propane, no. 2 fuel oil, no. 4 fuel oil, and/or used oil in this emissions unit. In order to use a fuel on an ongoing basis, the permittee shall complete the emissions testing for that fuel per section E.1.a.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall receive a chemical analysis with each shipment of on-spec used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier’s U.S. EPA's identification number, and the following information:

   a. date of shipment or delivery;

b. quantity of on-spec used oil received;
c. the Btu value of the on-spec used oil;
d. the flash point of the on-spec used oil;
e. the arsenic content, in ppm;
f. the cadmium content, in ppm;
g. the chromium content, in ppm;
h. the lead content, in ppm;
i. the PCB content, in ppm;
j. the total halogen content, in ppm; and
k. the mercury content, in ppm.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the Northeast District Office of Ohio EPA) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

3. The permittee shall maintain monthly records of the following information:

   a. the total asphalt production for each month;
   b. the total asphalt produced for each fuel type for each month;
   c. the rolling, 12-month summation of the total asphalt production and the asphalt production by fuel type; and
   d. the maximum percentage of RAP used for any mix.

4. For each shipment of number 2 fuel oil, number 4 fuel oil and on-spec used oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittees or oil supplier's analyses for sulfur content and heat content.

5. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal (above the allowable) visible particulate emissions from the baghouse serving this emissions unit. If abnormal visible particulate emissions are observed, the permittee shall note the

following in the operation log:

a. the color of the visible emissions;
b. the cause of the visible emissions;
c. the total duration of the visible emission incident; and
d. corrective actions taken to correct the excess visible particulate emissions.

6. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the rotary drum and cold aggregate elevator/conveyor serving this emissions unit. If visible emissions are observed, the permittee shall note the following in the operation log:

a. the location and color of the visible emissions;
b. the cause of the visible particulate emissions;
c. the total duration of any visible emissions incident; and
d. any corrective actions taken to minimize or eliminate the visible emissions.

7. While performing each burner tuning, the permittee shall record the results of the burner tuning using the Burner Tuning Reporting Form for Asphalt Concrete Plants form (as found in term F.4). An alternative form may be used upon approval of the appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month asphalt production limitations. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(2).

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the RAP limitation specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).

4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month total PE, SO2, NOx, VOC and CO emission limitations. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(2).

5. The permittee shall notify the U.S. EPA and the Ohio EPA if any of the used oil exceeds the onspec used oil specifications found in OAC rule 3745-279-11. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule. The required notification shall be submitted within 30 days of the date in which the exceedance occurred.

6. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the sulfur content limit specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).

7. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any abnormal (above the allowable) visible particulate emissions were observed from the stack serving this emissions unit, and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Northeast District Office of Ohio EPA by

January 31 and July 31 of each year and shall cover the previous 6-month period.

8. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the rotary drum and cold aggregate elevator/conveyor, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Northeast District Office of Ohio EPA by January 31 and July 31 of each year and shall cover the previous 6-month period.

9. The permittee shall submit a copy of the Burner Tuning Reporting Form for Asphalt Concrete Plants form to the appropriate Ohio EPA district office or local air agency to summarize the results of each burner tuning procedure. These reports shall be submitted to the Ohio EPA district office or local air agency by January 31 of each year and shall cover the previous calendar year.

10. Relocation of Portable Sources

    a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:

        i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

        ii. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;

        iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, within a minimum of 30 days prior to the scheduled relocation; and

        iv. in the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site's judgement, the proposed site is acceptable under OAC rule 3745-15-07.

    b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E)

are met:

i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

ii. the portable emissions unit is equipped with best available technology;

iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;

iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the (the permitting Ohio EPA District Office or local air agency) and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the source, and/or appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties. Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or

delete certain portable sources or add or delete certain terms and conditions as appropriate.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitations:

NOx emissions shall not exceed 18.98 lbs/hr.
SO2 emissions shall not exceed 32.43 lbs/hr.
CO emissions shall not exceed 74.18 lbs/hr.
VOC emissions shall not exceed 79.70 lbs/hr.
PE shall not exceed 0.030 gr/dscf of total exhaust gases.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 60 days after achieving the maximum production rate for the primary fuel but no later than 120 days after initial modification of the emissions unit. Emissions testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, VOC, CO, NOx and SO2.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

For PE, Methods 1-5 of 40 CFR Part 60, Appendix A.
For NOx, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.
For SO2, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A
For CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A
For VOC, Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC 3745-21-10(C)(7) where the average molecular weight of the VOC emissions equals 16. i.e., the VOC as

carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity and burning natural gas, number 2 fuel oil, number 4 fuel oil or on-spec used oil for PE, VOC, CO, NOx and SO2 and employing RAP to verify VOC emissions, unless otherwise specified or approved by the Northeast District Office of Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Northeast District Office of Ohio EPA's refusal to accept the results of the emission test(s).

Personnel from the Northeast District Office of Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Northeast District Office of Ohio EPA within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Northeast District Office of Ohio EPA.

1.b Emissions Limitation:
PE emissions shall not exceed 8.70 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be determined by multiplying the

observed emission rate from the most recent emissions testing, in pounds of PE per ton of asphalt produced, by the actual rolling, 12 month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by term and condition C.3 above), and dividing by 2000.

1.c Emission Limitation:
VOC emissions shall not exceed 79.70 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of VOC per ton of asphalt produced, by the actual rolling, 12 month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by term and condition C.3 above), and dividing by 2000.

1.d Emission Limitation:
CO emissions shall not exceed 74.18 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of CO per ton of asphalt produced, by the actual rolling, 12 month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by term and condition C.3 above), and dividing by 2000.

1.e Emission Limitation:
SO2 emissions shall not exceed 32.43 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of SO2 per ton of asphalt produced, by the actual rolling, 12 month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by term and condition C.3 above), and dividing by 2000.

1.f Emission Limitation:
NOx emissions shall not exceed 18.98 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of NOx per ton of asphalt produced, by the actual rolling, 12 month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by term and condition C.3 above), and dividing by 2000.

1.g Emission Limitation:
Visible particulate emissions from the stack shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance shall be determined using Method 9 as set forth in 40 CFR, Part 60, Appendix A, as such appendix existed on July 1, 2002 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

1.h Emission Limitation:
No visible emissions of fugitive dust from the rotary drum.

Applicable Compliance Method:
Compliance with the limitations on visible emissions of fugitive dust found in section A.1 of this permit shall be demonstrated by the monitoring and record keeping in section C.6. If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, Standards of Performance for New Stationary Sources, as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule

3745-17-03.

1.i Emission Limitation:
Visible emissions of fugitive dust (from areas other than the rotary drum) shall be less than or equal to 10 percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

1.j Emissions Limitation:
Fugitive PE emissions from the cold end shall not exceed 3.85 tons per rolling, 12-month period. (AP-42 5th Edition, Table 11.12-2(10/01) and 11.1.2.5 (12/00))

Applicable Compliance Method:
Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations:

Fugitives emissions from the cold end are calculated as follows:

Weigh hopper loading:

600,000 tons of material/year X 0.0051 lb PE/ton of material = 3,060 lbs of PE/yr

Aggregate transfer:

600,000 tons of aggregate/year X 0.0069 lb PE/ton of aggregate = 4,140 lbs of PE/yr

Sand transfer:
240,000 tons of sand/year X 0.0021 lb PE/ton of sand = 504 lbs of PE/yr

The sum of the above is 7,704 lbs of PE/yr X 1 ton/2000 pounds = 3.85 tons of PE

1.k Emission Limitation:
Fugitives emissions from the hot end (hot mix asphalt (HMA) load-out and silo filling) are calculated as follows:

Asphalt plant silo filling and plant load-out emissions from AP-42, Table 11.1-14 dated 3/2004

Known:
V = -0.5 Asphalt volatility factor (default) T = 325 HMA mix temp (F) (default)
For silo filling, 1.4% of TOC is not VOC AP-42 Table 11.1-16 dated 3/2004

For plant load-out, 7.3% of TOC is not VOC AP-42 Table 11.1-16 dated 3/2004

Activity	Pollutant	Predictive Emission Factor Equation, lb/ton
Silo filling	PE	EF=0.000332+0.00105(-V)e((0.0251)(T+460)-20.43)
Load-out	PE	EF=0.000181+0.00141(-V)e((0.0251)(T+460)-20.43)
Silo filling	VOC	EF= [0.0504(-V)e((0.0251)(T+460)-20.43)] x (1-0.014)
Load-out	VOC	EF= [0.0172(-V)e((0.0251)(T+460)-20.43)] x (1-0.073)
Silo filling	CO	EF=0.00488(-V)e((0.0251)(T+460)-20.43)
Load-out	CO	EF=0.00558(-V)e((0.0251)(T+460)-20.43)

Based on the above information, the emission factors and emissions are as follows:

Activity	Pollutant	lb/ton	tons/yr (at 600,000 tons/yr production)
Silo filling	PE	5.86 x 10-4	0.18
Load-out	PE	5.22 x 10-4	0.16
Silo filling	VOC	1.20 x 10-2	3.60
Load-out	VOC	3.86 x 10-3	1.16
Silo filling	CO	1.18 x 10-3	0.35
Load-out	CO	1.35 x 10-3	0.41

2. Burner Tuning

2.a Introduction

The permittee is required to conduct periodic tuning of the asphalt plant burner. The purpose of this tuning is to ensure that the burner is adjusted properly so that air pollution emissions remain in compliance with allowable emissions rates and are minimized.

2.b Qualifications for Burner Tuning

Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a minimum, have passed manufacturer's training concerning burner tuning, or have been trained by someone who has completed the manufacturer's training concerning burner tuning.

2.c Portable Monitor Requirements

The permittee shall properly operate and maintain portable device(s) to monitor the

concentration of NOx, O2 and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.

2.d Burner Tuning Procedure

The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emissions limitations as described in term E.1.a. The baselines shall be determined for NOx, and CO. Sampling should measure the exhaust gas values exiting the baghouse. The duration of each sample shall follow the portable monitor manufacture's recommendations. Record these values on the Burner Tuning Reporting Form for Asphalt Concrete Plants form (as found in Section F.2) in the "Recent Stack Test Basis Values" column. Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in Section E.2.e. The general procedure for tuning the burner involves the following steps:

i. Review the plant operations to ensure the plant is operating normally.

ii. Confirm that the portable monitor is calibrated per the manufacture's specifications.

iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for NOx and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the Burner Tuning Reporting Form for Asphalt Concrete Plants form.

iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than115 percent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to Section v. below.

The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 percent of the baseline values. Make any necessary adjustments and repairs. Repeat Sections iii. and iv. until the measured stack exhaust gas values are equal to or less than 115 percent of

the pollutant baseline values.

v. Once all of the measured stack exhaust gas values are within the 115 per cent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the Burner Tuning Reporting Form for Asphalt Concrete Plants form.

vi. By January 31st of each year, submit a copy of all Burner Tuning Reporting Form for Asphalt Concrete Plants forms produced during the past calendar year to the Ohio EPA District Office or local air agency responsible for the permitting of the facility.

2.e Burner Tuning Frequency

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date. In addition to the burner tuning procedure required above, the permittee shall conduct the burner tuning procedure within 20 production days from the date the facility switches to a fuel that is different than the fuel burned during the initial emissions tests that establish the pollutant baseline levels or the fuel burned during the most recent burner tuning procedure, whichever is later.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR, Part 60.

Source Number	Source Description	NSPS Regulation (Subpart)
P902	300 ton/hr asphalt plant	Subpart I

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR, Part 60 are also federally enforceable.

Emissions Unit ID: **P902**

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

1. Construction date (no later than 30 days after such date);
2. Actual start-up date (within 15 days after such date); and
3. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to the Northeast District Office of Ohio EPA.

2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in emissions due to the modification(s) to the emissions unit was less than 1 ton per year of each toxic pollutant that has a listed Threshold Limit Value (TLV), as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices").

3. The following terms and conditions of this permit are federally enforceable: all except F.2.

4. Burner Tuning Form

BURNER TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS	
Facility ID:	Tuning Date:
Legal Name:	Other Company Name (if different than legal name):
Mailing Address:	Other Company Site Address: (if different than mailing address):
City, State, Zip Code:	Other Company City, County, Zip Code:
Site Contact Person:	Site Contact Telephone Number:
Site Contact Title:	Site Contact Fax Number:
Name of company performing tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

Reason for Tuning: ☐ Season Initial Tuning ☐ June Tuning ☐ September Tuning ☐ Fuel Switch ☐ Other (describe)

Emissions Unit ID: **P902**

Fuel employed during tuning: ☐ Natural Gas ☐ #2 Fuel Oil ☐ #4 Fuel Oil ☐ Used Oil ☐ Other (describe)

Tuning Results:

Parameter	Recent Stack Test Pollutant Baseline Levels[1]	Results	
		Pre Tuning	Post Tuning[3]
Fuel flow to the burner (gallon/hr) (for fuel oil and on-spec used oil)			
Fuel pressure (psi)			
For burners that require compressed air for proper operation, pressure at the burner (psi)			
Carbon Monoxide (CO) concentrations (ppm)[2]			
NOx concentrations (ppm)[2]			
Oxygen concentrations (%)[2]			
Asphalt Production (tons/hr)			

[1]These values are based on the results of the most recent Ohio EPA approved emissions test.
[2] Specify whether on a dry or wet basis.
[3] If the burner did not require adjusting, please record N/A in the post tuning column.

Describe in detail a list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturers specifications. Use additional paper if necessary.

Authorized Signature: This signature shall constitute personal affirmation that all statements or assertions of fact made in this form are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Name of Official (Printed or Typed):	Title of Official and Phone Number:
Signature of Official:	Date: