

CONSTRUCTION PERMIT GRANT - OPERATING PERMIT DENIAL - NSPS SOURCE

PERMITTEE

Tough Cut Concrete Services, Inc.
Attn: Christine McClellan, President
9503 Gulfstream Road
Frankfort, Illinois 60423

Application No.: 11080024

I.D. No.: 031255AAF

Applicant's Designation:

Date Received: September 16, 2011

Subject: Clean Concrete/Asphalt Pavement Crushing Plant

Date Issued:

Location: Sexton Development West of I-57 & North of Sauk Trail,
Richton Park, Cook County

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission unit(s) and/or air pollution control equipment consisting of a clean concrete/asphalt pavement crushing plant that includes one 360 tons/hour primary crusher, two 200 tons/hour secondary crushers, one screen, and two conveyors as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special conditions:

- 1a. The emission units included in this permit may be operated under this permit for one year from the date of issuance indicated above. The Illinois EPA suggests that the Permittee reapply for an Operating Permit after the NSPS testing required in Condition 3 below is successfully completed in accordance with the conditions in this permit. This information must be submitted in triplicate and should reference the application and I.D. numbers assigned above.
- b. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
- c. The Permittee shall, at all times, maintain and operate this equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 2a. This equipment is subject to New Source Performance Standards (NSPS), 40 CFR Part 60, Subparts A and 000. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Emissions of particulate matter (PM) from screens (except from truck dumping), transfer points on belt conveyors, bagging operations, and storage bins shall not exceed the opacity limits in 40 CFR Part 60 Subpart 000.
- c. Emissions of PM from the crusher(s) (except from truck dumping), shall not exceed the opacity limits in 40 CFR Part 60 Subpart 000.

- 3a. The opacity from the affected facilities shall be measured within 180 days of startup during conditions which are representative of the maximum performance pursuant to the requirements of 40 CFR 60.8 and 40 CFR Part 60 Subpart 000. The Illinois EPA may provide additional time for the performance of this testing upon request from the Permittee which shows that it is not feasible to perform representative testing within that time period.
- b.
 - i. The following methods and procedures shall be used for opacity measurements.

USEPA Method 9, 40 CFR 60 Appendix A
- c. Opacity measurements shall be performed by a certified observer.
- d. The Illinois EPA shall be notified in writing prior to these measurements to enable the Illinois EPA to observe these measurements. Notification of the expected date of the measurements shall be submitted a minimum of thirty (30) days prior to the expected date. Notification of the actual date and expected time of measurement shall be submitted a minimum of five (5) working days prior to the actual date of the measurement. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notifications if it interferes with the Illinois EPA's ability to observe the measurements.
- e. Copies of the Final Report(s) for these tests shall be submitted to the Illinois EPA within 60 days after the date of the final day of testing. The Final Report shall include as a minimum:
 - i. A descriptive and table summary of results.
 - ii. General information including but not limited to the name, location and identification of the emission source(s) tested, date(s) of testing, names of personnel and entities performing the tests, and Illinois EPA observers, if any.
 - iii. Description of test procedures and method(s), including description and map of emission sources and sampling points, sampling train, testing and analysis equipment, and test schedule.
 - iv. Detailed description of test conditions, including:
 - A. List and description of the equipment (including serial numbers or other equipment specific identifiers) tested and process information, i.e., mode(s) of operation, process rate/throughput, e.g. fuel or raw material consumption;
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing, and

- C. A discussion of any preparatory actions taken, i.e., inspections, calibration, maintenance and repair.
 - v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration. Identification of the applicable regulatory standards and permit conditions that the testing was performed to demonstrate compliance with, a comparison of the test results to the applicable regulatory standards and permit conditions and a statement whether the test(s) demonstrated compliance with the applicable standards and permit conditions.
 - vi. An explanation of any discrepancies among individual tests, failed tests or anomalous data.
 - vii. The results and discussion of all quality control evaluation data, including a copy of all quality control data.
 - viii. The applicable operating parameters of the pollution control device(s) during testing (temperature, pressure drop, scrubbant flow rate, etc.), if any.
- 4a. Operation and emissions of the clean concrete/asphalt pavement crushing plant shall not exceed the following limits:

<u>Equipment</u>	<u>Clean Concrete/Asphalt Pavement Throughput</u>			<u>Emission Factor</u>		
	<u>(Tons/Hr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>	<u>(Lbs/Tons)</u>	<u>PM Emissions</u>	
				<u>PM</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
3 Crushers	360	75,000	750,000	0.00120	0.08	0.45
1 Screen	360	25,000	250,000	0.00220	0.05	0.28
2 Conveyors	360	50,000	500,000	0.00014	<u>0.01</u>	<u>0.04</u>
				Totals	0.14	0.77

These limits are based on the maximum clean concrete/asphalt pavement throughput of 250,000 tons/year, emission factors for crushed stone processing operations for tertiary crushing (controlled), screening (controlled), and conveyor/transfer point (controlled) as listed in Table 11.19.2-2, AP-42, August 2004, and applicant submitted information. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. The surface moisture content of the clean concrete/asphalt pavement as crushed shall be at least 1.5% by weight. The Permittee shall show compliance with this requirement as follows:
 - i. The moisture content of a representative sample of the clean concrete/asphalt pavement shall be measured at least once per week using ASTM Procedures (C566-97) for total moisture content of material. Compliance with this requirement may be presumed if

moisture content of crushed clean concrete/asphalt pavement as shipped is at least 1.5%; or

- ii. A. Water sprays shall be used at each crusher and on other emission units as necessary, except when weather conditions are below or expected to fall below freezing temperatures, to provide moisture that will reduce emissions of particulate matter.
 - B. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
 - C. Inspections of water spray equipment and operation (such as leaking, adequate flow maintain, clogging of flow lines, etc.) shall be performed at least once per week when the facility is in operation.
5. This permit does not exempt the Permittee from obtaining a Construction and/or Operating Permit for any additional emission units in excess of those units specified in this permit, unless such emission units or operations are already exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146.
- 6a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible by an observer looking generally toward the zenith (that is, looking at the sky directly overhead) from a point beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
- b. The Permittee shall comply with the applicable opacity limitations of 35 Ill. Adm. Code 212.123 and the particulate matter emission limitations of 35 Ill. Adm. Code 212.321.
 - c. The Permittee shall perform the dust control measures and procedures described in the permit application.
7. Compliance with the requirements of Condition 4(b) shall be demonstrated as follows:
- a. If the Permittee is relying on Condition 4(b)(i) above to show compliance the Permittee shall maintain records of all moisture content tests performed, including date, time, individual performing test, location of sample e.g., prior to crushing or as shipped.
 - b. If the Permittee is relying on Condition 4(b)(ii) above to show compliance the Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type, date and measures taken to correct), water pressure, and dates when there was at least 0.25" of rainfall during the preceding 24 hours and the water spray equipment was not operated.

- c. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 4(b)(ii)(B) and amount of precipitation specified in Condition 7(b).
8. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the equipment covered under this permit such that the equipment is kept in proper working condition and not causes a violation of the Environmental Protection Act or regulations promulgated therein.
9. Pollution control devices shall be in operation at all times when the associated emission unit(s) is in operation and emitting air contaminants.
10. The Permittee shall maintain monthly records of:
 - a. Information and data required by Condition 7;
 - b. Dates/results of inspections/maintenance required in Condition 8;
 - c. Amount, source, and type of clean concrete/asphalt pavement processed (tons/month, tons/year); and
 - d. PM emissions (tons/months, tons/year) with supporting calculations.
11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
12. If there is an exceedance of or deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance/deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or deviation and efforts to reduce emissions and future occurrences.
13. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

Pursuant to 35 Ill. Adm. Code 201.160(b), an operating permit may not be issued until the equipment has been constructed or modified in accordance with applicable conditions in this construction permit. Therefore, your request for an Operating Permit is hereby denied. The Illinois EPA suggests that you reapply for the operating permit after the construction and NSPS testing are successfully completed in accordance with the construction permit. This information must be submitted in triplicate and should reference the application and I.D. numbers assigned above.

Please be advised that a permit from the Bureau of Land Permit Section may be required for this project. Please contact the Bureau of Land Permit Section at 217-524-3300 for their requirements

If you have any questions on this, please call German Barria at 217/782-2113.

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

Date Signed: _____

ECB: GB: Type

cc: Region 1
Ray Pilapil, CES
BOL Permit Section