

**Draft**

**AIR EMISSION PERMIT NO. 99000208-002**  
**Major Amendment**

**IS ISSUED TO**

Intex Corp

**INTEX CORP**

Portable

Rogers, Hennepin County, MN 55374

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit applications.

Permit Type	Application Date	Issue Date	Action
Total Facility Operating Permit	July 28, 1994 (updated February 17, 2005)	February 1, 2006	001
Major Amendment	October 23, 2007	See Below	002

This permit supersedes Air Emission Permit No. 99000208-001 and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the State Implementation Plan (SIP) under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

**Permit Type:** State; Limits to Avoid Pt 70/Limits to Avoid NSR;

**Operating Permit Issue Date:** February 1, 2006

**Major Amendment Issue Date:** <issue date>

**Expiration Date:** Permit does not expire  
Title I Conditions do not expire.

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Don Smith, P.E., Manager  
Air Quality Permits Section  
Industrial Division

for John Linc Stine  
Commissioner  
Minnesota Pollution Control Agency

## **TABLE OF CONTENTS**

**Notice to the Permittee**

**Permit Shield**

**Facility Description**

**Amendment Description**

**Table A: Limits and Other Requirements**

**Table B: Submittals**

**Appendices:**

**Appendix A: Weather Summary Criteria**

**Appendix B: Modeling Parameters**

**Appendix C: Equipment Inventory (Electronic document)**

**NOTICE TO THE PERMITTEE:**

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651- 296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

**PERMIT SHIELD:**

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

**FACILITY DESCRIPTION:**

The Intex Corporation - Portable facility processes crushed stone and sand for use in various construction applications. The facility processes include crushing, screening, and transport of crushed stone and sand. Diesel generators are used to power the equipment. Emissions are primarily dust from the processing and hauling of the material, and combustion byproducts from the generators. Pollution control measures include monitoring of material moisture content and the addition of water sprays to reduce the occurrence of fugitive dust.

**AMENDMENT DESCRIPTION:**

This permitting action is a major amendment to allow additional equipment and increased production capacity, to revise permit language to establish procedures for equipment replacement, and to eliminate the requirement for computer dispersion modeling through fulfillment of the modeling requirement.

This permitting action defines the term Crushing Spread, which is the group of units that are used for nonmetallic mineral processing (and subject to 40 CFR pt. 60, subp. OOO). The permit further limits the types and maximum quantities of each type of emission unit contained within a Crushing Spread, based on the results of the modeling.

This permitting action also corrects the annual throughput limits for the facility and increases the number of Crushing Spreads allowed; the original permit incorrectly limited the throughput and hours of operation of the facility by not having those limits apply separately to each spread.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-1 04/03/13

Facility Name: Intex Corp  
 Permit Number: 99000208 - 002

**Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.**

**Subject Item: Total Facility**

What to do	Why to do it
<b>SOURCE-SPECIFIC REQUIREMENTS</b>	hdr
This permit contains appendices as listed in Table of Contents. The Permittee shall comply with all requirements contained in appendices or referred to by Table A. Modeling parameters in Appendix B are included for reference only as described elsewhere in Table A.	Minn. R. 7007.0800, subp. 2
Feed Material Moisture Content: greater than or equal to 1.5 percent	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
Demonstrate the feed material moisture content by either 1 or 2 below: 1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows: a. Use ASTM method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test weekly, when operating, unless three consecutive tests at the stationary source location show moisture contents of greater than or equal to 1.5%, then tests are no longer required until the source of the feed material changes.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
d. When testing indicates that feed material moisture content is less than 1.5%, in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee shall operate a moisture addition device at or immediately prior to the initial crusher(s) or initial screen(s) where unprocessed feed material is being fed to achieve a moisture content greater than or equal to 1.5%. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates that feed material moisture content is greater than or equal to 1.5% for three consecutive tests.	(continued) Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
i. Keep records of the date, water flow rate, material throughput rate, initials of the person making the record, and the time the record was made; or ii. Conduct moisture content testing on the feed material after water application, and if results show moisture content is less than 1.5%, increase water addition to insure moisture content is 1.5% or greater and re-test to verify.  2. Keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source (if recycled asphalt pavement, so indicate), the corresponding dates, and the initials of the person making the record.	(continued) Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
Non-Process Dust Control: All reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. The Permittee shall achieve this by preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressant to stockpiles, unpaved roads and handling areas.  In addition, the following requirements apply to the Permittee: 1. Record date and time of each dust control action and initials of person making the record. 2. Record amount of water or dust suppressant applied.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer's guidelines. The Permittee must keep a copy of these manufacturer's guidelines. 4. Record the location (e.g., site sketch) of water or dust suppressant application. 5. Install a rain gauge at the site and record the precipitation in the previous 24 hours for each day of operation at the site. 6. Make and record basic weather observations according to the MPCA Weather Summary Criteria that best characterize each operating day. 7. Unpaved roads at the site shall be posted with speed limit signs indicating a maximum speed of 10 miles per hour. 8. Equipment to apply water or dust suppressant shall always be available at the site or on call for use at the site within a given operating day.	(continued) Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200

**TABLE A: LIMITS AND OTHER REQUIREMENTS**
**A-2**

04/03/13

Facility Name: Intex Corp

Permit Number: 99000208 - 002

Geographic Areas of Operation Allowed: Under this permit, provided all conditions are met, the Permittee is authorized to construct, modify and operate the source anywhere in Minnesota except any area designated as nonattainment (or maintenance) for PM10. If the Permittee wishes to operate at a location in an area that is or becomes reclassified nonattainment (or maintenance) for PM10 after issuance of this permit, the Permittee must submit an application for an individual part 70 or state permit to cover that location before commencing operation or beginning actual construction or modification of a nonmetallic mineral processing stationary source.	Minn. R. 7007.0800, subps. 2 & 12
Relocation Notification Form: due 48 hours before change in location. Submit notification on a form approved by the Commissioner.	Minn. R. 7007.0800, subp. 12(C)
OPERATIONAL REQUIREMENTS	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subps. 2 & 16(J)
Operation and Maintenance (O&M) Plan: Retain at the stationary source an O&M plan for all air pollution control equipment. At a minimum, the O&M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 & 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017.	Minn. R. ch. 7017
Performance Test Notifications and Submittals:  Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements.  Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - CD Copy: due 105 days after each Performance Test  The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4; Minn. R. 7017.2035, subps. 1-2
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-3**

04/03/13

Facility Name: Intex Corp

Permit Number: 99000208 - 002

<b>MONITORING REQUIREMENTS</b>	hdr
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment.	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
<b>RECORDKEEPING</b>	hdr
Recordkeeping: Retain all records at the main office of the portable source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. These records shall be kept for a period of five years from the date that the change was made. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
<b>REPORTING/SUBMITTALS</b>	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.  At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.  At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. The cause of the deviation; 2. The exact dates of the period of the deviation, if the deviation has been corrected; 3. Whether or not the deviation has been corrected; 4. The anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-4**

04/03/13

Facility Name: Intex Corp

Permit Number: 99000208 - 002

Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150-7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095
MODELING	hdr
The parameters used in PM10 modeling are listed in Appendix B of this permit. The parameters describe the operation of the facility at maximum permitted capacity. The purpose of listing the parameters in the appendix is to provide a benchmark for future changes.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Modeling Triggers: For changes that do not require a permit amendment and affect any modeled parameter or emission rate documented in Appendix B, or are an addition to the information documented in Appendix B, a Remodeling Submittal requirement is not triggered at the time of the change. The Permittee shall keep updated records on site of all parameters and emission rates. The Permittee shall submit any changes to parameters and emission rates with the next required Remodeling Submittal.  For changes that require a minor, moderate, or major permit amendment and affect any modeled parameter or emission rate documented in Appendix B, or are an addition to the information documented in Appendix B, a Remodeling Submittal requirement is triggered. The Permittee shall include previously made changes to parameters and emission rates that did not trigger a Remodeling Submittal.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Remodeling Submittal: The Permittee must submit to the MPCA for approval changes meeting the above criteria and must wait for a written approval before making such changes (see introduction for Table B of this permit for MPCA mailing information). For minor amendments, written approval of the modeling may be given before permit issuance; however, this approval applies only to the modeling and not to any other changes. The information submitted must include, for stack and vent sources, source emission rate, location, height, diameters, exit velocity, exit temperature, discharge direction, use of rain caps or rain hats, and, if applicable, locations and dimensions of nearby buildings. For non-stack/vent sources, this includes the source emission rate, location, size and shape, release height, and, if applicable, any emission rate scalars, and the initial lateral dimensions and initial vertical dimensions and adjacent building heights.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled for 99000208-002. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must submit full remodeling.	(continued) Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-5 04/03/13

Facility Name: Intex Corp  
 Permit Number: 99000208 - 002

**Subject Item: GP 001 Crushing Spreads**

What to do	Why to do it
For the purposes of this permit, the term Crushing Spread means a group of units that are used for nonmetallic mineral processing.	hdr
Each Crushing Spread owned by the facility shall consist of units at quantities at any one time not to exceed: 2 Crushers                      2 Stockpiles                      10 Conveyors 1 Screen                              1 Feeder	Minn. R. 7007.0800, subp. 2; Minn. R. 7009.0020
The Permittee shall have no more than 9 Crushing Spreads in total.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
The Permittee shall operate no more than 1 Crushing Spread at any one processing location. The permittee shall maintain a minimum 0.5 km radius between each Crushing Spread.	Minn. R. 7007.0800, subp. 2; Minn. R. 7009.0020
Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.	40 CFR Section 60.671 and Minn. R. 7011.3350
OPERATIONAL LIMITS	hdr
Material Usage: less than or equal to 950,000 tons/year using 12-month Rolling Sum for each Crushing Spread.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
Process Throughput: less than or equal to 700 tons/hour of any Crushing Spread.	Minn. R. 7009.0020
Operating Hours: less than or equal to 16 hours/day for each Crushing Spread.	Minn. R. 7009.0020
Each day of operation the Permittee shall record the quantity of material processed and the hours of operation. By the 15th of the following month, the Permittee shall calculate and record the 12-month rolling sum of material processed. Records shall be kept at the main office.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 5
Opacity: less than or equal to 12 (15*) percent opacity from any crusher.  Opacity: less than or equal to 7 (10*) percent opacity from any other unit within a Crushing Spread.  * The value in ( ) applies to units that commenced construction, reconstruction, or modification prior to April 22, 2008.	40 CFR Section 60.672(b) and Minn. R. 7011.3350
This permit establishes limits on the facility to keep it a minor source under New Source Review. The Permittee cannot make any change at the source that would make the source a major source under New Source Review until a permit amendment has been issued. This includes changes that might otherwise qualify as insignificant modifications and minor or moderate amendments.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
EQUIPMENT REQUIREMENTS	hdr
Equipment Labeling: The Permittee shall permanently affix the manufacturer's serial number (or otherwise unique identifying number), and the appropriate EU and GP numbers, to each emissions unit for tracking purposes. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance. This number shall correspond to the number contained in records regarding the piece of equipment. If equipment is replaced, it shall reuse the EU and GP numbers of the unit that is being replaced.	Minn. R. 7007.0800, subp. 2
Equipment Inventory: The Permittee shall maintain a written list of all emission units and control equipment on site. The Permittee shall update the list to include any replaced, modified, or new equipment prior to making the pre-authorized change.  The list shall correlate the units to the numbers used in this permit (EU, GP, CE) and shall include the data in Appendix C. The date of construction shall be the date the change was made for replaced, modified, or new equipment.	Minn. R. 7007.0800, subp. 2



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-6**

04/03/13

Facility Name: Intex Corp

Permit Number: 99000208 - 002

<p>Equipment Replacement: The Permittee may replace an existing unit covered by GP 001 if the following requirements are met:</p> <ol style="list-style-type: none"> <li>1. The replacement must happen simultaneously with the removal of the old unit.</li> <li>2. The replacement unit shall use the same EU number and the same description as the unit it replaces. The replacement unit capacity shall not exceed the capacity listed in Appendix C for that unit.</li> <li>3. A notification of the actual date of initial startup of the replacement unit shall be submitted and postmarked within 15 days after such date.</li> <li>4. When an opacity compliance demonstration is required for a replacement unit, the replacement unit shall demonstrate compliance with the opacity limits within 60 days after achieving the maximum production rate of the unit, but not later than 180 days after initial startup.</li> </ol>	<p>40 CFR Section 60.670(d) and Minn. R. 7011.3350; Minn. R. 7007.0800, subps. 5 &amp; 6</p>
<p>An opacity compliance demonstration is required for a replacement unit only if one or more of the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. An existing unit is replaced by a piece of equipment of larger size;</li> <li>2. There is an increase in the amount of actual emissions; or</li> <li>3. All existing units in a spread are replaced with new units.</li> </ol>	<p>40 CFR Section 60.670 and Minn. R. 7011.3350</p>
<p>If the replacement unit hourly capacity increases, a permit amendment may be required as specified by Minn. R. 7007.1150. The Permittee shall document the evaluation of whether a permit amendment is required. The Permittee shall obtain the required permit amendment prior to making a change which requires a permit amendment.</p>	<p>Minn. R. 7007.1150 - 7007.1500; Minn. R. 7007.0800, subp. 5</p>
<p>The Permittee shall submit a notification (see page B-2) containing the following information about an existing unit being replaced and the replacement unit.</p> <ol style="list-style-type: none"> <li>1. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station: <ol style="list-style-type: none"> <li>i. The rated capacity in tons per hour of the existing unit being replaced; and</li> <li>ii. The rated capacity in tons per hour of the replacement equipment.</li> </ol> </li> <li>2 For a screening operation: <ol style="list-style-type: none"> <li>i. The total surface area of the top screen of the existing screening operation being replaced; and</li> <li>ii. The total surface area of the top screen of the replacement screening operation.</li> </ol> </li> <li>3. For a conveyor belt: <ol style="list-style-type: none"> <li>i. The width of the existing belt being replaced; and</li> <li>ii. The width of the replacement conveyor belt.</li> </ol> </li> </ol>	<p>40 CFR Section 60.676(a) and Minn. R. 7011.3350; Minn. R. 7007.0800, subp. 6</p>

# TABLE A: LIMITS AND OTHER REQUIREMENTS

A-7 04/03/13

Facility Name: Intex Corp  
Permit Number: 99000208 - 002

**Subject Item:** GP 003 Stationary Internal Combustion Engines

**Associated Items:** EU 003 Diesel Generator #1  
EU 011 Diesel Generator #2  
EU 020 Diesel Generator #3  
EU 028 Diesel Generator #4  
EU 039 Diesel Generator #5  
EU 050 Non-electrical Diesel Generator  
EU 051 Minor Diesel Generator  
EU 124 Diesel Generator #6  
EU 125 Diesel Generator #7  
EU 126 Diesel Generator #8  
EU 127 Diesel Generator #9

What to do	Why to do it
Stacks associated with each engine are shown in the following pairs:  <div> <div>EU 003/SV 001</div> <div>EU 028/SV 005</div> <div>EU 051/SV 008</div> <div>EU 126/SV 011</div> </div> <div> <div>EU 011/SV 002</div> <div>EU 039/SV 006</div> <div>EU 124/SV 009</div> <div>EU 127/SV 012</div> </div> <div> <div>EU 020/SV 004</div> <div>EU 050/SV 007</div> <div>EU 125/SV 010</div> </div>	hdr
LIMITS	hdr
Fuel Usage: less than or equal to 305,000 gallons/year using 12-month Rolling Sum as the total combined fuel for all units within GP 003.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200
Allowed Fuels. Diesel fuel with a maximum sulfur content of 0.5 percent by weight. No other fuels shall be used.  (The potential to emit from the unit is 0.26 lb/MMBtu due to allowable fuels which meets the requirement of Minn. R. 7011.2300, subp. 2.)	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200; Minn. R. 7005.0100, subp. 35a; Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
RECORDKEEPING	hdr
By the 15th of each month, the Permittee shall calculate and record the total fuel usage for the previous calendar month and the 12-month rolling sum fuel usage for the previous 12-month period.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 & 70.2; Minn. R. 7007.3000 & Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 5
Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel, certifying that the sulfur content does not exceed 0.50% by weight.	Minn. R. 7007.0800, subps. 4 & 5
Equipment Labeling: The Permittee shall permanently affix the manufacturer's serial number (or otherwise unique identifying number), and the appropriate EU and GP numbers, to each emissions unit for tracking purposes. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance. This number shall correspond to the number contained in records regarding the piece of equipment.	Minn. R. 7007.0800, subp. 2

## TABLE B: SUBMITTALS

B-1 04/03/13

Facility Name: Intex Corp  
Permit Number: 99000208 - 002

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Chief Air Enforcement  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send any application for a permit or permit amendment to:

Fiscal Services  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue NW (6204N)  
Washington, D.C. 20460

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Intex Corp  
Permit Number: 99000208 - 002

What to send	When to send	Portion of Facility Affected
Notification	due 15 days after Initial Startup of a replacement unit. The notification shall contain the information required by GP 001.	GP001

**TABLE B: RECURRENT SUBMITTALS****B-3** 04/03/13

Facility Name: Intex Corp

Permit Number: 99000208 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 02/01/2006. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Annual Report	due 31 days after end of each calendar year following Permit Issuance. The Permittee shall submit an annual report by January 31st that describes the changes made at the facility during the previous calendar year using the latest MPCA application forms. The report shall include the emission unit, stack/vent, group, and control equipment data for any new or replaced units or control devices as tracked by Appendix C. The report shall document the process throughput 12-month rolling sum calculations for the previous calendar year. The report shall be submitted with the annual Compliance Certification listed in Table B. As part of the Annual Report, the Permittee shall verify and certify that the facility has maintained minor source status for New Source Review.	GP001
Compliance Certification	due 30 days after end of each calendar year starting 02/01/2006 (for the previous calendar year). To be submitted to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year.	Total Facility

## APPENDIX A

### Weather Summary Criteria

Facility Name: Intex Corp  
Permit Number: 99000208-002

### WEATHER SUMMARY CRITERIA

#### Sky Conditions

CLR	<1/10 cloud coverage
SCT (Ptly Cldy)	1/10-5/10 cloud coverage (opaque)
BKN (Mstly Cldy)	6/10-9/10 cloud coverage (opaque)
OVC (Cloudy)	10/10 cloud coverage (opaque)
THN OVC	Sky is completely covered with high thin clouds and <5/10 cloud coverage is opaque

Note: The cloud coverage is a cumulative total of all cloud layers.

#### Weather Conditions

Fog	May also be associated with drizzle and may obstruct sky
Drizzle	Small particles of rain many times associated with fog
Lt Rain	Continuous falling at a light rate (good horizontal visibility)
Mod Rain	Continuous falling at a mod. rate (horiz. visibility decreased)
Hvy. Rain	Continuous falling at heavy rate; in sheets (horizontal visibility low)
T-Stm	Thunderstorm -- thunder, lightning, and usually mod. to hvy. rain
Hail	Associated with thunderstorms
Frz Rain	Rain that freezes on contact of cold objects; glazing
Sleet	Mixture of rain and ice pellets
Ice Pellets	Clear/mostly translucent pellets of ice -- not easily broken/crushed
Snw Grns/Snw Pellets	Hard/crunchy opaque (white) pellets of snow -- easily crushed
Lt Snow	Falling at a light rate; flurries (good horizontal visibility)
Mod Snow	Falling at a moderate rate (horizontal visibility decreased)
Hvy Snow	Falling at a heavy rate (poor horizontal visibility)

#### Wind Scale

0-10 MPH	Light Breeze	Leaves rustle
10-20 MPH	Light Wind	Small tree branches move; wind extends light flag
20-30 MPH	Mod. Wind	Large branches in motion; umbrella used with difficulty
30-40 MPH	Mod. Gale	Whole trees in motion; difficulty walking against wind
40-50 MPH	Strong Gale	Twigs break off of trees

#### Temperature

Approximate using a range of 5 degrees Fahrenheit if the actual temperature is not known.

## APPENDIX B

### Modeling Parameters

Facility Name: Intex Corp  
Permit Number: 99000208-002

**Table 1 – Operating Parameters**

Daily Operating Hours	16	hours/day
Annual Operating Hours	5,840	hours/year
Hourly Throughput	700	tons/hr
Daily Throughput	11,200	tons/day
Annual Throughput	4,088,000	tons/year

**Table 2 – Volume Source Model Parameters**

	Unit Height (ft)	Drop Height (ft)	Release Height (ft)	Release Height (m)	Unit Height (m)	Emission Rate (g/s)	(g*m/s)
Crusher 1: Jaw Crusher	9	2	5.5	1.7	2.7	0.05	0.08
Crusher 2: Cone	11	1.5	6.25	1.9	3.4	0.05	0.09
Screen	12	5	8.5	2.6	3.7	0.07	0.17
Stock Pile 1	50	50	50	15.2	15.2	0.23	3.46
Stock Pile 2	50	50	50	15.2	15.2	0.23	3.46
Unpaved Roads	NA	NA	NA	NA	NA	NA	NA
Generator	NA	NA	15	4.6	1.4	0.11	0.49
<b>Total</b>						<b>0.721</b>	<b>7.74</b>

weighted release height (m)	10.74	
Initial Lateral Dimension (m)	14.95	<--- Size of site / 4.3 (Value corrected below)
Initial Vertical Dimension (m)	2.5	<--- Release height / 4.3

**Corrected value since initial submission of modeling protocol:**

<b>Initial Lateral Dimension (m)</b>	<b>14.24</b>	<b>&lt;--- Size of site / 4.3</b>
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Note: The area of the modeled Intex site from within the theoretical fenceline 4,134.49 square meters (64.3 meters by 64.3 meters). In previous discussion with the MPCA, it was decided that the fenceline was to be located no more than 3.05 meters (10 feet) from the process equipment. In our protocol, the size of the site was incorrectly assumed to equal 64.3 meters. The actual dimension of the site must remove the distance from the equipment to the fenceline (i.e. 64.3 m - 3.05 m). The incorrect initial lateral dimension caused problems, because if any receptor is located within 1 meter of the effective radius of a volume source a warning message is printed to the AERMOD output file and no concentrations are calculated for the source-receptor combination. This was the case during initial model runs. Six of the receptors did not calculate modeled impacts. The fenceline was modeled in the correct location, but the calculation of the initial lateral dimension was incorrect, and since has been corrected.

## APPENDIX C

### Equipment Inventory (Electronic Document)

Facility Name: Intex Corp

Permit Number: 99000208-002

Appendix C is an electronic spreadsheet created for the ongoing tracking of equipment at the facility. The following table is presented as a short summary of the electronic document. This table also represents the minimum amount of information to be tracked by the Permittee.

ID # ***	Status	Operator ID	GP ID #s	SV ID #s	CE ID #s	Description	Manufacturer	Model	Design Capacity (Ton/hr)*			Construction Date	Startup Date	Removal Date
									Maximum	Rated	Other**			
EU 001	Active	498	GP 001	---	CE 001			30x62	700	300	---	2/1/2005	2/1/2005	
EU 002	Active	499	GP 001	---	CE 006			54RCII	700	362	---	6/1/2004	6/1/2004	
EU 003	Active	549	GP 003	SV 001	---			3406C	599	599	---	6/18/2001	6/18/2001	
EU 004	Active	524	GP 001	---	---			36x60	700	313		1/1/2004	1/1/2004	
EU 005	Active	537	GP 001	---	---			30x6	700	350		1/1/1997	1/1/1997	
EU 006	Active	536	GP 001	---	---			36x35	700	300		1/1/1999	1/1/1999	
EU 007	Active	5303	GP 001	---	---			36x125	700	300		5/25/2004	5/25/2004	
EU 009	Active	500	GP 001	---	CE 002			30x62	700	350	---	3/17/2004	3/17/2004	
EU 010	Active	502	GP 001	---	CE 007			54RCII	700	533	---	1/1/2001	1/1/2001	
EU 011	Active	546	GP 003	SV 002	---			3412	755	755	---	1/1/1999	1/1/1999	
EU 012	Active	534	GP 001	---	---			36x50	700	359		1/1/1995	1/1/1995	
EU 013	Active	531	GP 001	---	---			30x60	700	784		1/1/1999	1/1/1999	
EU 014	Active	532	GP 001	---	---			30x35	700	300		1/1/1993	1/1/1993	
EU 015	Active	5316	GP 001	---	---			36x125	700	300		1/1/2003	1/1/2003	
EU 017	Active	501	GP 001	---	CE 003			30x62	700	362	---	2/15/2000	2/15/2000	
EU 019	Active	509	GP 001	---	CE 008			54RCII	700	300	---	1/1/1995	1/1/1995	
EU 020	Active	544	GP 003	SV 004	---			C-18	923	923	---	3/1/2004	3/1/2004	
EU 021	Active	525	GP 001	---	---			30x60	700	300		1/1/1998	1/1/1998	
EU 022	Active	5311	GP 001	---	---			30x65	700	366		1/1/2000	1/1/2000	
EU 023	Active	538	GP 001	---	---			30x60	700	350		1/1/1997	1/1/1997	
EU 024	Active	5305	GP 001	---	---			36x125	700	366		1/1/2004	1/1/2004	
EU 026	Active	506	GP 001	---	CE 004			30x62	700	300	---	1/1/1993	1/1/1993	
EU 027	Active	504	GP 001	---	CE 009			RC54II	700	300	---	1/1/2003	1/1/2003	
EU 028	Active	542	GP 003	SV 005	---			3546	772	772	---	1/1/2004	1/1/2004	
EU 029	Active	529	GP 001	---	---			30x60	700	300		1/1/1987	1/1/1987	
EU 030	Active	5301	GP 001	---	---			36x60	700	784		1/1/2004	1/1/2004	
EU 031	Active	539	GP 001	---	---			30x60	700	490		1/1/1997	1/1/1997	
EU 032	Active	527	GP 001	---	---			36x125	700	350		1/1/1998	1/1/1998	
EU 034	Active	5317	GP 001	---	---			3341	700	414	---	1/1/2003	1/1/2003	
EU 035	Active	508	GP 001	---	---			6x20	700	414		1/1/2002	1/1/2002	
EU 036	Active	5312	GP 001	---	---			30x50	700	445		1/1/1998	1/1/1998	
EU 037	Active	5313	GP 001	---	---			30x50	700	414		1/1/1997	1/1/1997	
EU 038	Active	505	GP 001	---	CE 010			RC54II	700	784	---	1/1/1999	1/1/1999	
EU 039	Active	543	GP 003	SV 006	---			3412	743	743	---	1/1/1995	1/1/1995	
EU 040	Active	526	GP 001	---	---			30x35	700	359		1/1/1985	1/1/1985	
EU 041	Active	528	GP 001	---	---			30x35	700	615		1/1/1987	1/1/1987	

\*Design capacity units are Hp for Generators

\*\*Other design capacity:

- For a screen, the total surface area of the top screen; or
- For a conveyor belt, the width of the belt.

\*\*\*For any replacement unit, insert a new line, use same EU#, fill out Removal date and change status of unit being replaced, and fill out construction date and startup date for new unit