Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a New Source Construction and
Minor Source Operating Permit (MSOP)

for DYNO One, Inc., in Bartholomew County

The Indiana Department of Environmental Management (IDEM) has received an application from DYNO One, Inc., located at 14671 N. 250 W, Edinburgh, IN 46124, for a new source construction and MSOP. If approved by IDEM's Office of Air Quality (OAQ), this proposed permit would allow DYNO One, Inc., to construct and operate a new stationary manufacture and remanufacture of Dynamometers.

The applicant intends to construct and operate new equipment that will emit air pollutants. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Edinburgh Public Library
119 W. Main Cross St.,
Edinburgh, IN 46124

and

IDEM Southeast Regional Office
820 West Sweet Street
Brownstown, IN 47220-9557

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit

application, please contact IDEM at the address below. Please refer to permit number M 005-37440-00112 in all correspondence.

Comments should be sent to:

Vasantha Palakurti
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 4-9694
Or dial directly: (317) 234-9694
Fax: (317) 232-6749 attn: Vasantha Palakurti
E-mail: vpalakur@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Vasantha Palakurti of my staff at the above address.

Tripurari Sinha

Tripurari P. Sinha, Ph.D., Section Chief
Permits Branch
Office of Air Quality

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Michael R. Pence
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Carol S. Comer
Commissioner

DRAFT

New Source Construction and Minor Source Operating Permit
OFFICE OF AIR QUALITY

DYNO One, Inc.
14671 N. 250 W
Edinburgh, Indiana 46124

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M 005-37440-00112	
Issued by: Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date:

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary manufacture and remanufacture of Dynamometers.

Source Address:	14671 N. 250 W, Edinburgh, Indiana 46124
General Source Phone Number:	812-526-0500
SIC Code:	3829 (Measuring and Controlling Devices)
County Location:	Bartholomew
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) Blast Cabinet identified as BC1, approved in 2016 for construction, with a maximum capacity of 572 lbs/hr, using baghouse as control, and exhausting indoors.

(b) One (1) Blast Cabinet identified as BC2, approved in 2016 for construction, with a maximum capacity of 354 lbs/hr, using baghouse as control, and exhausting indoors.

(c) One (1) Paint booth identified as PB1, approved in 2016 for construction, with a maximum capacity of 0.25 units per hour, using dry particulate filter control, and exhausting to stack ES-1.

(d) Eight (8) natural gas-fired space heaters, identified as B1 - B8, approved in 2016 for construction with a maximum combined heat input rating of 0.96 million British thermal units per hour (MMBtu/hr).

(e) Welding and cutting operations consisting of the following:

1) One (1) MIG welding, approved in 2016 for construction with a maximum capacity of 0.5 lbs/hr, using no controls and exhausting indoors.

2) One (1) TIG welding, approved in 2016 for construction with a maximum capacity of 0.5 lbs/hr, using no controls and exhausting indoors.

3) One (1) Oxyacetylene cutting, approved in 2016 for construction with a maximum capacity of 5 in/min, using no controls and exhausting indoors

4) One (1) Plasma cutting, approved in 2016 for construction with a maximum capacity of 90 in/min, using no controls and exhausting indoors

5) One (1) Laser cutting, approved in 2016 for construction with a maximum capacity of 90 in/min, using no controls and exhausting indoors

(f) One (1) parts washer unit, approved in 2016 for construction with a maximum combined usage

rate of 0.07 lbs/hr solvent.

(g) One (1) coolant unit, approved in 2016 for construction with a maximum usage rate of 0.005 gal/hr of oil using no controls and exhausting indoors.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M 005-37440-00112, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.6 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.7 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.8 Property Rights or Exclusive Privilege

This permit does not convey any property rights of any sort or any exclusive privilege.

B.9 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.10 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.

(c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M 005-37440-00112 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.13 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.14 Permit Renewal [326 IAC 2-6.1-7]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.16 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.17 Inspection and Entry
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.19 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.20 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.8 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than

twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ

that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(h) One (1) Blast Cabinet identified as BC1, approved in 2016 for construction, with a maximum capacity of 572 lbs/hr, using baghouse as control, and exhausting indoors.

(i) One (1) Blast Cabinet identified as BC2, approved in 2016 for construction, with a maximum capacity of 354 lbs/hr, using baghouse as control, and exhausting indoors.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate Emissions Limitations [326 IAC 6.5]

(a) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the blast cabinet identified as BC1, shall not exceed 1.77 pounds per hour when operating at a process weight rate of 572 lbs per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

(b) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the blast cabinet identified as BC2, shall not exceed 1.28 pounds per hour when operating at a process weight rate of 354 lbs per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 326 IAC 2- 6.1- 5]

D.1.3 Particulate Control

In order to ensure compliance with Condition D.1.1, the baghouses for particulate control shall be in operation and control emissions from the blast cabinets 1 and 2 operates at all times the BC1 and BC2 operations are in operation.

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2- 6.1- 5(a)(2)]

D.1.4 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a blast cabinet process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.1.5 Baghouse Inspections

The Permittee shall perform semi-annual inspections of the baghouses controlling particulate from the blast cabinets 1 and 2 operations to verify that they are being operated and maintained in accordance with the manufacturer's specifications. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.5 the Permittee shall maintain records of the results of the inspections required under Condition D.1.5.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(j) One (1) Paint booth identified as PB1, approved in 2016 for construction, with a maximum capacity of 0.25 units per hour, using dry particulate filter control, and exhausting to stack ES-1.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.2.1 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-1(b)(14), spray surface coating booths identified as PB1 through PB4, shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

(1) The source shall operate the control device in accordance with manufacturer's specifications.

(2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:

(A) Repair the control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(3) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and associated control devices. Section B - Preventive Maintenance Plan contains the Registrant's obligation with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.3 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1(3), the Permittee shall maintain a record of any actions taken if overspray is visibly detected.

(b) Section C - General Record Keeping Requirements contains the Permittee’s obligations with regard to the records required by this condition.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	DYNO One, Inc.
Address:	14671 N. 250 W
City:	Edinburgh, Indiana 46124
Phone #:	812-526-0500
MSOP #:	M 005-37440-00112

I hereby certify that DYNO One, Inc. is :

- ☐ still in operation.
- ☐ no longer in operation.

I hereby certify that DYNO One, Inc. is :

- ☐ in compliance with the requirements of MSOP M 005-37440-00112.
- ☐ not in compliance with the requirements of MSOP M 005-37440-00112.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____
_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____
_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____
*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____
_____

Mail to: Permit Administration and Support Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

DYNO One, Inc.
14671 N. 250 W
Edinburgh, Indiana 46124

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)

4. I hereby certify that DYNO One, Inc. 14671 N. 250 W, Edinburgh, Indiana 46124, completed construction of the manufacture and remanufacture of Dynamometers on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on July 26, 2016 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M 005-37440-00112, Plant ID No. 00-00112 issued on _____.

5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature_____
Date_____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana

on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature_____
Name_____ (typed or printed)

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name:	**DYNO One, Inc.,**
Source Location:	**14671 N. 250 W, Edinburgh, IN 46124**
County:	**Bartholomew**
SIC Code:	**3829 (Measuring and Controlling Devices)**
Operation Permit No.:	**005-37440-00112**
Permit Reviewer:	**Vasantha Palakurti**

On July 26, 2016, the Office of Air Quality (OAQ) received an application from DYNO One, Inc. related to the construction and operation of a new stationary manufacture and remanufacture of Dynamometers.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Bartholomew County.

Pollutant	Designation
SO2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.1
PM10	Unclassifiable effective November 15, 1990.
PM2.5	Unclassifiable or attainment effective April 5, 2005, for the annual PM2.5 standard.
PM2.5	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM2.5 standard.
NO2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
1Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Bartholomew County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$

Bartholomew County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Other Criteria Pollutants
Bartholomew County has been classified as attainment or unclassifiable in Indiana for SO2, NO2, Pb, PM2.5, PM10 and CO. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

(a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

(b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Background and Description of Permitted Emission Units and New Source Construction

The Office of Air Quality (OAQ) has reviewed an application, submitted by DYNO One, Inc. on July 26, 2016, relating to operation of a new stationary manufacture and remanufacture of Dynamometers.

The following is a list of the new emission units and pollution control devices:

(a) One (1) Blast Cabinet identified as BC1, approved in 2016 for construction, with a maximum capacity of 572 lbs/hr, using baghouse as control, and exhausting indoors.

(b) One (1) Blast Cabinet identified as BC2, approved in 2016 for construction, with a maximum capacity of 354 lbs/hr, using baghouse as control, and exhausting indoors.

(c) One (1) Paint booth identified as PB1, approved in 2016 for construction, with a maximum capacity of 0.25 units per hour, using dry particulate filter control, and exhausting to stack ES-1.

(d) Eight (8) natural gas-fired space heaters, identified as B1 - B8, approved in 2016 for construction with a maximum combined heat input rating of 0.96 million British thermal units per hour (MMBtu/hr).

(e) Welding and cutting operations consisting of the following:

1) One (2) MIG welding, approved in 2016 for construction with a maximum capacity of 0.5 lbs/hr, using no controls and exhausting indoors.

2) One (1) TIG welding, approved in 2016 for construction with a maximum capacity of 0.5 lbs/hr, using no controls and exhausting indoors.

3) One (1) Oxyacetylene cutting, approved in 2016 for construction with a maximum capacity of 5 in/min, using no controls and exhausting indoors

4) One (1) Plasma cutting, approved in 2016 for construction with a maximum capacity of 90 in/min, using no controls and exhausting indoors

5) One (1) Laser cutting, approved in 2016 for construction with a maximum capacity of 90 in/min, using no controls and exhausting indoors

(f) One (1) parts washer unit, approved in 2016 for construction with a maximum combined usage rate of 0.07 lbs/hr solvent.

(g) One (1) coolant unit, approved in 2016 for construction with a maximum usage rate of 80.00

gallons per year of oil using no controls and exhausting indoors.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	41.47
PM10[(1)]	29.33
PM2.5	29.33
SO_2	0.0
NO_x	0.41
VOC	16.85
CO	0.35

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10) and particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM2.5), not particulate matter (PM), are each considered as a "regulated air pollutant".

HAPs	Potential To Emit (tons/year)
Toluene	5.02
Xylene	2.12
TOTAL HAPs	**7.99**

(a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM and PM10 are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.

(b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

(a) The requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances, 40 CFR 60, Subpart SS (326 IAC 12), are not included in the permit, since Dynamometers are not large appliance, as defined in 40 CFR 60.45 1. Therefore this rule is not applicable.

(b) The requirements of the New Source Performance Standard, 40 CFR Part 60, Subpart OOO "Standards of Performance for Non-metallic Mineral Processing Plants" are not included in the permit for blast cabinets because the source does not process any non metallic minerals at their facility.

(c) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM, are not included in this permit for paint booth, because the source is not a major source, is not located at a major source, and is not part of a major source of emissions of hazardous air pollutants (HAPs) and does not use 250 gallons or more of coating per year..

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants Surface Coating of Large Appliances, 40 CFR 63, Subpart NNNN, are not included in this permit, since Dynamometers are not large appliance, as defined in 40 CFR 63.4081(b). Therefore this rule is not applicable.

(f) The requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, are not included in this permit, because the source does not perform paint stripping using methyl chloride (MeCl), does not perform spray application of coatings, as defined in 40 CFR 63.11180, to motor vehicles and mobile equipment, and does not perform spray application of coatings that contain target hazardous air pollutants, as defined in 40 CFR 63.11180.

(g) The requirements of the National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX, are not included in this permit, because Dynamometers are not classified under Electrical and Electronic Equipment Finishing Operations, therefore not part of one of the nine source categories.

(h) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

(h) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

(a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

(b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This new source is not a major stationary source, under PSD (326 IAC 2-2), because:
(1) The potential to emit all other PSD regulated pollutants are less than 250 tons per year,
(2) This source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

(d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

(e) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations) is applicable to this source.

(f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

(g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions equal to or greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.

(h) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each new unit is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit are less than twenty-five (25) tons per year.

(i) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.

(j) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Blast Cabinets

(k) **326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the blast cabinet identified as BC1, shall not exceed 1.77 pounds per hour when operating at a process weight rate of 572 lbs per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

The blast cabinet (BC1) shall not exceed 1.77 pounds per hour when operating at a process weight rate of 572 lbs per hour. The baghouse shall be in operation at all times the blast cabinet BC1 is in operation, in order to comply with this limit.

(l) **326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the blast cabinet identified as BC2, shall not exceed 1.28 pounds per hour when operating at a process weight rate of 354 lbs per

hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

The blast cabinet (BC2) shall not exceed 1.28 pounds per hour when operating at a process weight rate of 354 lbs per hour. The baghouse shall be in operation at all times the blast cabinet BC2 is in operation, in order to comply with this limit.

Paint Booth

(m) **326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)**
Pursuant to 326 IAC 6-3-2(d), the paint booth identified as PB1, shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

(1) The source shall operate the control device in accordance with manufacturer's specifications.

(2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:

(A) Repair the control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

(n) **326 IAC 8-2-9 Miscellaneous Metal and Plastic Parts Coating Operation**
The source is located in Bartholomew County, approved in 2016 for construction of spray surface coating booth, identified as PB1, which has the potential for actual VOC emissions to be greater than fifteen (15) pounds per day before add-on controls. However, the requirements of 326 IAC 8-2-9 are not applicable to the spray surface coating booths because the source does not perform surface coating of:

(1) Large and small farm machinery;

(2) Small household appliances;

(3) Office equipment;

(4) Commercial and industrial machinery and equipment; and/or

(5) Any other industrial category that coats metal parts or products under the Standard Industrial Classification Code of major groups #33 through #39.

The source performs the surface coating of Measuring and Controlling Devices under the SIC code of major group #29.

(o) **326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)**
Paint booth (PB1) is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from this unit is less than twenty-five (25) tons per year.

Natural Gas-Fired Unit

(p) **326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating)**
The space heater is not subject to the requirements of 326 IAC 6-2, because they are source of direct heating and so not meet the definition of "combustion for indirect heating" as defined in 326 IAC 1-2-19.

(q) **326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)**
The space heater at this source are exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight

Welding operation

(r) **326 IAC 6-3-1 (Particulate Emission Limitations for Manufacturing Processes)**
Pursuant to 326 IAC 6-3-1(b)(9), the welding operations are not subject to 326 IAC 6-3, since source performs welding operations less than six hundred twenty-five (625) pounds of rod or wire per day, it is exempt from this rule.

Parts Washers

(s) **326 IAC 8-3-2 (Cold Cleaner Operations)**
Pursuant to 326 IAC 8-2-1, the cold cleaning operations are not subject to 326 IAC 8-3-2 (Cold Cleaner Operations) since the emissions from the cold cleaner operations are less than 15 pounds of VOC per day before add-on controls. Therefore, the requirements of 326 IAC 8-3-2 shall not apply to these facilities.

(t) **326 IAC 8-3-8 (Material Requirements for Cold Degreasers)**
Pursuant to 326 IAC 8-2-1 and 326 IAC 8-3-2, the cold cleaning operations are not subject to 326 IAC 8-3-8 (Material Requirements for Cold Degreasers) since the emissions from the cold cleaner operations are less than 15 pounds of VOC per day before add-on controls. Therefore, the requirements of 326 IAC 8-3-8 shall not apply to these facilities.

(u) There are no other 326 IAC 8 Rules that are applicable to the facility.

Compliance Determination, Monitoring and Testing Requirements

(a) The compliance determination and monitoring requirements applicable to this source are as follows

Emission Unit	Control	Operating Parameters	Frequency	Range	Excursions and Exceedances
Blast Cabinets 1 & 2	Baghouse	Inspections	Semi-annual	Normal-Abnormal	Response Steps

These monitoring conditions are necessary because the baghouses for blast cabinets 1 and 2 (BC-1 & BC-2) must operate properly to ensure compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

(b) There are no testing requirements included in this permit.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 26, 2016.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction, New Source Review and MSOP No. 005-37440-00112. The staff recommends to the Commissioner that this New Source Construction, New Source Review and MSOP be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Vasantha Palakurti at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317)234-9694 or toll free at 1-800-451-6027 extension 4-9694.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

Appendix A: Emissions Calculations
Emission Summary
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Unlimited potential to emit (tons/yr)										
Emission Units	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_x**	**VOC**	**CO**	**Total HAPs**	**Worst single HAP**	
Blast Cabinet -1	25.06	17.54	17.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blast Cabinet - 2	15.51	10.85	10.85	0.00	0.00	0.00	0.00	0.00	0.00	
Paint Booth	0.72	0.72	0.72	0.00	0.00	16.53	0.00	7.96	5.02	Toluene
Natural Gas Combustion	0.01	0.03	0.03	0.00	0.41	0.02	0.35	0.01	0.01	Hexane
Parts Washer	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	-
Lathe & Mill	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	
Welding	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.00	Cr+6
Total	**41.47**	**29.33**	**29.33**	**0.00**	**0.41**	**16.85**	**0.35**	**7.99**	**5.02**	**Toluene**

Appendix A: Emissions Calculations
Blast Cabinets
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Blast Cabinets

Process/Operation	Abrasive	ID	Material Throughput Rate (lb/hr)	Density of Abrasive (lb/ft3) From Table 2	Uncontrolled PM (lb/hr)	Uncontrolled PM10 (lb/hr)	Uncontrolled PM (tons/yr)	Uncontrolled PM10 (tons/yr)	Potential Emissions (tons/hr)	Controlled Estimated Emissions (tons/yr)	Allowable Emission (lb/hr)
Blast Cabinets	Alumina	BC1	572.12	160.00	5.72	4.00	25.06	17.54	76.83	0.25	1.77
	Glass Beads	BC2	354.00	99.00	3.54	2.48	15.51	10.85	47.54	0.16	1.29
Control Efficiency - Baghouse							**99.00%**				
Allowable Emission (lb/hr) = 4.10 X [Process Weight Rate (tons)]$^{0.67}$											

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	0.70

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Cobs*	32
Steel	487

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

	Nozzle Pressure (psig)							
Internal diameter, in	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)

FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =	354	
D = Density of abrasive (lb/ft3) From Table 2 =	160	For Alumina
D = Density of abrasive (lb/ft3) From Table 2 =	99	For Glass beads
D1 = Density of sand (lb/ft3) =	99	
ID = Actual nozzle internal diameter (in) =	0.3125	
ID1 = Nozzle internal diameter (in) from Table 3 =	0.3125	

Flow Rate (FR) (lb/hr) = 572.12 per nozzle for BC1
Flow Rate (FR) (lb/hr) = 354.00 per nozzle for BC2

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	572.12	354
Fraction PM10 (lbs PM10/lbs PM) From Table 1 =	0.70	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emissions Calculations
Paint Booth
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water & Exempt	Weight % Organics	Volume % Water & exempt	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	lbs VOC per gal of coating less water	lbs VOC per gal of coating	Potential VOC (lbs/hr)	Potential VOC (lbs/day)	Potential VOC (tons/yr)	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Paint Booth (Sher Kem System)																
Kem Flash 500 Primer, Lt Gray (E61A750)	12.82	25.35%	0.0%	25.35%	0.00%	53.00%	1.30E-01	0.25	3.25	3.25	0.11	2.54	0.46	0.27	0.00	80%
Quick dry 350 Enamel, Gloss Black (F77B701)	8.01	41.32%	0.0%	41.32%	0.00%	55.00%	4.35E-01	0.25	3.31	3.31	0.36	8.63	1.58	0.45	0.00	80%
Xylene (gun cleaning)	7.17	100.00%	0.0%	100.00%	0.00%	0.00%	1.63E-01	0.25	7.17	7.17	0.29	7.01	1.28	0.00	0.00	80%
Metal Cleaning/preparation																
Lacquer Thinner R7K119	6.70	100.00%	20.9%	79.10%	21.22%	0.00%	2.09E+00	0.25	6.73	5.30	2.77	66.37	12.11	0.00	0.00	80%
Surface Cleaner - Finish 1 (solvent naphtha)	6.17	100.00%	0.0%	100.00%	0.00%	0.00%	1.63E-01	0.25	6.17	6.17	0.25	6.04	1.10	0.00	0.00	80%
											Total Potential to emit		**16.53**	**0.72**		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Appendix A: Emissions Calculations
Paint Booth
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Potential to Emit

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum Production (unit/hr)	Weight % Xylene	Xylene Emssions (tons/yr)	Weight % Toluene	Toluene Emssions (tons/yr)	Weight % Ethylbenzene	Ethylbenzene Emssions (tons/yr)	Weight % MIBK	MIBK Emssions (tons/yr)	
Paint Booth (Sher Kem System)												
Kem Flash 500 Primer, Lt Gray (E61A750)	12.82	0.130	0.25	0.00%	0.000	0.00%	0.00	0.10%	0.00	15.00%	**0.27**	
Quick dry 350 Enamel, Gloss Black (F77B701)	8.01	0.435	0.25	27.00%	1.030	0.00%	0.00	5.00%	**0.189**	0.00%	0.00	
Xylene (gun cleaning)	7.17	0.163	0.25	85.00%	**1.09**	0.00%	0.00	15.00%	0.19	0.00%	0.00	
Total					**1.088**		**0.000**		**0.189**		**0.273**	
Metal Preparation												
Lacquer Thinner R7K119	6.70	2.087	0.25	5.00%	**0.77**	33.00%	**5.02**	0.90%	**0.14**	0.00%	0.00	
Surface Cleaner - Finish 1	6.17	0.163	0.25	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	
Total					**0.766**		**5.021**		**0.137**		**0.000**	

Material	Density (lb/gal)	Gal of Mat (gal/unit)	Maximum Production (unit/hr)	Weight % 1,2,4 Trimethyl-	TMB Emssions (tons/yr)	Weight % Methanol	Methanol Emssions (tons/yr)	Weight % Glycol Ethers	Glycol Ethers Emissions (tons/yr)	Weight % Zinc	Zinc Emissions (tons/yr)	TOTAL HAP Emssions (tons/yr)
Paint Booth (Sher Kem System)												
Kem Flash 500 Primer, Lt Gray (E61A750)	12.82	0.1304	0.25	5.00%	0.092	0.00%	0.00	0.00%	0.00	7.00%	0.13	0.09
Quick dry 350 Enamel, Gloss Black (F77B701)	8.01	0.4348	0.25	0.00%	0.000	0.00%	0.00	0.00%	0.00	0.00%	0.00	1.22
Xylene (gun cleaning)	7.17	0.1630	0.25	0.00%	0.000	0.00%	0.00	0.00%	0.00	0.00%	0.00	1.28
Total					**0.092**		**0.000**		**0.000**		**0.127**	**1.279**
Metal Preparation												
Lacquer Thinner R7K119	6.70	2.0870	0.25	0.00%	0.00	4.00%	0.61	1.00%	0.15	0.00%	0.00	6.68
Surface Cleaner - Finish 1	6.17	0.1630	0.25	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00
Total					**0.000**		**0.609**		**0.152**		**0.000**	**6.685**
									Total Potential to emit HAP			**7.96**

Methodology:
HAPs emission rate for Solvents (tons/yr) = density (lb/gal) * (gal/unit) * (units/hour) * weight % HAP * (8,760 hrs/yr) * (1 ton/2,000 lb
Note: Worst coating is considered for Total potential to emit as all solvents are not used at the same time

Appendix A: Emissions Calculations
Space Heaters - Natural Gas Combustion
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Comfort - Space Heaters

Unit	MMBtu/hour each	Total # of Units	Total MMBtu
Space Heaters	0.12	8	0.96

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
1.0	1020	8.2

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.03	0.03	0.00	0.41	0.02	0.35

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology
All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	8.7E-06	4.9E-06	3.1E-04	7.4E-03	1.4E-05	**0.01**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	2.1E-06	4.5E-06	5.8E-06	1.6E-06	8.7E-06	**2.3E-05**
					Total HAPs	**0.01**
					Worst HAP	**0.01**

Methodology is the same as above.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Parts Washer
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Maintenance Parts Washer

Material	Density (lbs/gal)	Maximum Usage rate (lbs/hr)	Maximum Usage rate (gal/hr)	Weight % VOC	* Maximum Usage (gal/yr)	PTE (lb/year)	PTE VOC (tons/yr)
Safety-Kleen Solvent	6.76	0.07	0.01	100%	90	0.0676374	0.29
						Total	0.29

Methodology

PTE VOC/HAP (tons/yr) = Density (lb/gal) * Max. Usage Rate (gal/hour) * Weight % Volatiles * 8760 hours/year * 1ton/2000 lbs

* Usage information provided by the source.

Emissions Calculations
CNC Lathe & Mill - Coolant
Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Emission Unit	Density (Lb/gal)	Gallons Used per year	Oil Fume Conversion*	PM/PM10/PM2.5 Potential (ton/yr)
CNC Lathe & Mill	8.00	80.00	50.00%	**0.16**
			Total	**0.16**

* Source supplied data
Assume coolant is oil based with 20 gallons used per 2000 hour/year

METHODOLOGY
Potential PM Tons per year = (Density (lb/gal) * gal/year) * (% conversion to fumes) * (2000 lbs/1 ton)
Gallons Used per year = 0.005 gal/hr * 8760 hr/yr

Emissions Calculations
Welding

Source Name: Dyno-One, Inc.
Source Location: 14671 N. 250 W., Edinburgh, IN 46124
Permit Number: M005-37440-00112
Permit Reviewer: Vasantha Palakurti
Date: 15-Aug-16

Welding

Process	Electrode type	Number of stations	Max electrode usage per station (lb/hr)	Emission factor (lb PM/lb electrode) PM	PTE (lb/hr) PM	Co	Cr^{3+}	Cr^{6+}	Mn	Ni	Pb	PTE (ton/yr) PM	Co	Cr^{3+}	Cr^{6+}	Mn	Ni	Pb
Metal inert gas (MIG)	Carbon steel	2.0	0.50	0.0018	0.0018	-	0.0005	0.0005	0.0001	0.0004	-	0.008	-	0.002	0.002	0.000	0.002	-
Tungsten Inert Gas (TIG)	Carbon steel	1.0	0.50	0.0055	0.0028	-	0.001	0.001	0.000	0.001	-	0.012	-	0.003	0.003	0.001	0.003	-
				Weight % HAP (in wire):		-	25%	25%	5.0%	21%	-							

Cutting

Process	Number of stations	Max metal thickness (in)	Max metal cutting rate per station (in/min)	Emission factor (lb PM/1000 in. cut) PM	PTE (lb/hr) PM	Co	Cr^{3+}	Cr^{6+}	Mn	Ni	Pb	PTE (ton/yr) PM	Co	Cr^{3+}	Cr^{6+}	Mn	Ni	Pb
Oxyacetylene	0.0	0.25	5.0	0.1662	0.000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.00	0.000	0.000	0.000	0.000	0.000	0.000
Plasma	0.0	N/A	90.0	0.0039	0.000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.00	0.000	0.000	0.000	0.000	0.000	0.000
Laser cutting table	0.0	N/A	90.0	0.0039	0.000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.00	0.000	0.000	0.000	0.000	0.000	0.000
				Weight % HAP (in steel):		0.1%	1.0%	1.0%	2.0%	0.1%	0.04%							
											Totals:	**0.020**	**0.000**	**0.005**	**0.005**	**0.001**	**0.004**	**0.000**

TOTAL HAPs TPY **0.015**

Notes:
PM emission factor for MIG welding are worst case for two types of rods/wires: AWS ER70S & Jetweld LH-3800.
PM emission factor for oxyacetylene welding and cutting are default for carbon steel.
Refer to AP-42, Chapter 12.19, Tables 12.19-1 and 12.19-2 for additional emission factors for welding.
PM emission factor for plasma cutting is from American Welding Society (AWS), as reported in:
Broman, B. et al, The Swedish Institute of Production Engineering Research, March 1994. Selected pages available at: http://www.epa.gov/ttn/chief/efdocs/welding.pdf
Trials used for this emission factor are for wet plasma cutting of 8mm thick mild steel.
Cutting speed ranged from 2.7 to 4.5 m/min and fume emissions ranged from 0.1 to 0.4 g/min. Therefore, mid-point value will used for the emission factor.
Actual metal thickness is not used in calculating PTE for plasma cutting
There are no emission factors for laser cutting. Therefore, plasma cutting emission factors were used to estimate potentials to emit.
Assume, PM = PM_{10} = $PM_{2.5}$

Methodology:
PTE of PM (lb/hr) (welding) = Number of stations * Max electrode usage (lb/hr) * Emission factor (lb pollutant/lb electrode)
PTE of PM (lb/hr) (oxacetylene cutting) = Number of stations * Max metal thickness (in) * Max metal cutting rate per station (in/min) * 60 min/hr * Emission factor (lb PM/1000 in. cut) / 1000 in
Plasma cutting emission factor (lb PM/1,000 in. cut) = (0.25 g/min)/(3.6 m/min) * (0.0022 lb/g)/(39.37 in/m) * (1,000 in.)
PTE of PM (lb/hr) (plasma cutting) = Number of stations * Max metal cutting rate per station (in/min) * 60 min/hr * Emission factor (lb PM/1000 in. cut) / 1000 in
PTE of HAPs (lb/hr) = PTE of PM (lb/hr) * Weight % HAPs (in wire or steel)
PTE (ton/yr) = PTE (lb/hr) * 8760 hr/yr * 1 ton/2000 lbs

Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

September 12, 2016
DYNO One, Inc.
005-37440-00112

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 2/17/2016

Indiana Department of Environmental Management
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Michael R. Pence
Governor

Carol S. Comer
Commissioner

September 12, 2016

Mr. Brad Taylor
DYNO One, Inc.
14671 N 250 W
Edinburgh, IN 46124

Re: Public Notice
DYNO One, Inc.
Permit Level: New Source Construction & MSOP
Permit Number: 005-37440-00112

Dear Mr. Taylor:

Enclosed is a copy of your draft New Source Construction & MSOP, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Republic in Columbus, Indiana publish the abbreviated version of the public notice no later than September 15, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Edinburgh Public Library, 119 W. Main Cross Street in Edinburgh, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Vasantha Palakurti, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-9694 or dial (317) 234-9694.

Sincerely,

Greg Hotopp

Greg Hotopp
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

September 12, 2016

To: Edinburgh Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: DYNO One, Inc.
Permit Number: 005-37440-00112

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 2/16/2016

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

September 12, 2016

The Republic
333 Second Street
PO Box 3001
Columbus, IN 47201

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for DYNO One, Inc., Bartholomew County County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than September 15, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Greg Hotopp at 800-451-6027 and ask for extension 4-3493 or dial 317-234-3493.

Sincerely,

Greg Hotopp

Greg Hotopp
Permit Branch
Office of Air Quality

Permit Level: New Source Construction & Minor Source Operating Permit
Permit Number: 005-37440-00112

Enclosure

PN Newspaper.dot 2/17/2016

Mail Code 61-53

IDEM Staff	GHOTOPP 9/12/2016 Dyno One Incorporated 005-37440-00112 Draft		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Brad Taylor Dyno One Incorporated 14671 N 250 W Edinburgh IN 46124 (Source CAATS)									
2		Bill Willis President Dyno One Incorporated 14671 N 250 W Edinburgh IN 46124 *(RO CAATS)*									
3		Mr. Elbert Held 734 Hutchins Columbus IN 47201 *(Affected Party)*									
4		Mr. Lcnfc 1039 Sycamore St Columbus IN 47201 *(Affected Party)*									
5		Bartholomew County Commissioners 440 Third Street Columbus IN 47202 *(Local Official)*									
6		Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 *(Affected Party)*									
7		Terry Lowe 1079 Spring Meadow Court Franklin IN 46131 *(Affected Party)*									
8		Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 *(Affected Party)*									
9		Edinburgh Wright Hageman Public 119 West Main Cross Edinburgh IN 46124-1499 *(Library)*									
10		Mr. John Kilmer Bruce Carter Associates 7202 E. 87th Street, #110 Indianapolis IN 46256 *(Consultant)*									
11		Edinburgh Town Council and Town Manager P.O. Box 65 Edinburgh IN 46124 *(Local Official)*									
12		Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 *(Health Department)*									
13		Hisada America, Inc. 1191 S. Walnut Street Edinburgh IN 46124 (Affected Party)									
14		Willis Realty, LLC 14671 N 250 West Edinburgh IN 46124 *(Affected Party)*									
15		Gail Krebbs 3021 W 900 N Edinburgh IN 46124 *(Affected Party)*									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53

IDEM Staff	GHOTOPP 9/12/2016 Dyno One Incorporated 005-37440-00112 Draft		
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

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Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Louisville & Indiana RR Co. 224 S. Michigan Ave, #330 Chicago IL 60604 (Affected Party)									
2		Georg Utz, Inc. 14000 N 250 W Edinburgh IN 46124 *(Affected Party)*									
3		Al-Anna Farms, Inc. 13811 N US 31 Edinburgh IN 46124 *(Affected Party)*									
4											
5											
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