MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY

Power Investments, Inc.
1175 North Hoosier Boulevard
Peru, Indiana 46970

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units 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 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 103-15670-00034	
Original signed by Paul Dubenetzky Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 6, 2002

TABLE OF CONTENTS

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 through A.3 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 locomotive connecting rods and blowers manufacturing source.

Authorized Individual:	Sean McGowan
Source Address:	1175 North Hoosier Boulevard, Peru, Indiana 46970
Mailing Address:	1175 North Hoosier Boulevard, Peru, Indiana 46970
Phone Number:	(765) 689-7620
SIC Code:	3743
County Location:	Miami
County Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Major or Minor Source, under PSD or Emission Offset Rules;

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) One (1) dip coating tank with a maximum usage of 0.2 gallons of coating per hour;

(b) One (1) paint booth with a maximum capacity of 6 locomotive parts per day, using dry filters for PM overspray control;

(c) One (1) glass bead shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 60 pounds per square inch or 1000 pounds of media per hour (lb/hr), using a baghouse, identified as C-2 for particulate matter control;

(d) One (1) cast iron shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 50 pounds per square inch or 800 pounds of media per hour (lb/hr), using a baghouse, identified as C-1 for particulate matter control;

(e) Ten (10) oxyacetylene welding stations, with a maximum metal rod consumption of 0.625 pounds per hour per station;

(f) Various natural gas-fired space heaters, identified as H1 through H19 with a combined heat input capacity of 3.06 million British thermal units (mmBtu/hr);

(g) One (1) natural gas-fired dipseal tank, identified as K-13 with a maximum heat input capacity of 0.125 mmBtu/hr;

(h) One (1) natural gas-fired gear washer, identified as B-14 with a maximum heat input capacity of 0.20 mmBtu/hr;

(i) One (1) natural gas-fired blowers cleaning tank, identified as B-13 with a maximum heat input capacity of 0.225 mmBtu/hr;

(j) One (1) natural gas-fired carrier pin washer, identified as B-5 with a maximum rated capacity of 0.3 mmBtu/hr;

(k) Two (2) natural gas-fired head liner cleaning tanks, identified as B-10 and B-12 with a total maximum rated capacity of 0.75 mmBtu/hr; and

(l) Miscellaneous machining operation.

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 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.5 Minor Source Operating Permit [326 IAC 2-6.1]

(a) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

(b) Pursuant to 326 IAC 2-6.1-7, the Permitted shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date of this operating permit. If IDEM, OAQ, upon receiving a timely and complete 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. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

(a) The total source potential to emit of Particulate Matter (PM) is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permitted shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:

(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;

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

(b) The Permitted shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permitted to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permitted must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permitted 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
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permitted shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permitted'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 Permitted shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permitted'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) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permitted shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permitted does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit 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.7 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 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.8 Fugitive Dust Emissions [326 IAC 6-4]

The Permitted 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). 326 IAC 6-4-2(4) is not federally enforceable.

Compliance Monitoring Requirements

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

Compliance with applicable requirements shall be documented as required by this permit. The Permitted 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.10 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.11 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

(a) The Permitted is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permitted and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permitted is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permitted has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within "normal" parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

Record Keeping and Reporting Requirements

C.12 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.13 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permitted shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.14 General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. 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 written request for records to the Permitted, the Permitted shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.15 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 Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(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) Unless otherwise specified in this permit, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

C.16 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted 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) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) 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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description

(b) One (1) dip coating tank with a maximum usage of 0.2 gallons of coating per hour;

(c) One (1) paint booth with a maximum capacity of 6 locomotive parts per day, using dry filters for PM overspray control;

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

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

(a) Pursuant to 326 IAC 6-3-2, the source shall operate the control device for the paint booth in accordance with manufacturer's specifications.

(b) 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:

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

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

(a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volume weighted average of the volatile organic compound (VOC) content from the coatings applied to the locomotive metal blower, screens and connecting rods shall be limited to 3.5 pounds per gallon less water for extreme performance coatings.

(b) The VOC limit in section (a) of this condition shall be determined on a daily-volume weighted average using the following equation:

$$\frac{\text{LB VOC}}{\text{Gallon less water}} = \frac{\sum_{3\ \text{coatings}} (D * O * Q) / (1 - w * Dc/Dw)}{\sum_{3} C}$$

Where:
Dc = density of coating, lb/gal
Dw = density of water, 8.33 lb/gal
O = weight percent organics, %
W = percent volume water, %
Q = quantity of coating, gal/unit
C = total coatings used, gal/unit

(c) Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for the paint booth and its control device.

Compliance Determination Requirements

D.1.4 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Conditions D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.5 Particulate Overspray

The dry filters shall be in place at all times the Paint Booth is in operation.

D.1.6 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stack while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.7 Record Keeping Requirements

(a) To document compliance with Conditions D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.2.

(1) The amount and VOC content of each coating material and solvent used.

Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The volume weighted VOC content of the coatings used for each day;

(4) The cleanup solvent usage for each day;

(5) The total VOC usage for each day; and

(6) The weight of VOCs emitted for each compliance period.

(b) To document compliance with Condition D.1.6, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) 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. This requirement shall satisfy Condition D.1.1.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description

(c) One (1) glass bead shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 60 pounds per square inch or 1000 pounds of media per hour (lb/hr), using a baghouse, identified as C-2 for particulate matter control;

(d) One (1) cast iron shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 50 pounds per square inch or 800 pounds of media per hour (lb/hr), using a baghouse, identified as C-1 for particulate matter control;

(e) Ten (10) oxyacetylene welding stations, with a maximum metal rod consumption of 0.625 pounds per hour per station;

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

Emission Limitations and Standards

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the glass bead shot blast unit shall not exceed 2.6 pounds per hour when operating at a process weight rate of 1000 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the cast iron shot blast unit shall not exceed 2.2 pounds per hour when operating at a process weight rate of 800 pounds per hour.

The pounds per hour limitation from sections (a) and (b) of this condition shall be calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 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

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.2 Testing Requirements [326 IAC 2-1.1-11]

The Permitted is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.2.1 shall be

determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.3 Particulate Matter (PM)

In order to comply with Condition D.2.1, baghouses , C2 and C1 for the glass bead shot blast unit, and cast iron shot blast unit, respectively for PM control shall be in operation at all times when these units are in operation.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description

(h) One (1) natural gas-fired gear washer, identified as B-14 with a maximum heat input capacity of 0.20 mmBtu/hr;

(i) One (1) natural gas-fired blowers cleaning tank, identified as B-13 with a maximum heat input capacity of 0.225 mmBtu/hr;

(j) One (1) natural gas-fired carrier pin washer, identified as B-5 with a maximum rated capacity of 0.3 mmBtu/hr;

(k) Two (2) natural gas-fired head liner cleaning tanks, identified as B-10 and B-12 with a total maximum rated capacity of 0.75 mmBtu/hr

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

Emission Limitations and Standards

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator of the cold cleaner degreasers (gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12) shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a emissions unit for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a matter that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5(a)]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreasers (gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12) shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a emissions unit for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F)), then the drainage emissions unit must be internal such that articles are enclosed under the cover while draining. The drainage emissions unit may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{O}C) (one hundred twenty degrees Fahrenheit (120^{O}F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreasers (gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12) shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE 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:	**Power Investments, Inc.**
Address:	**1175 North Hoosier Blvd.**
City:	**Peru**
Phone #:	**(765) 689-7620**
MSOP #:	**103-15670-00034**

I hereby certify that **Power Investments, Inc.** is 9 still in operation.
9 no longer in operation.

I hereby certify that **Power Investments, Inc.** is 9 in compliance with the requirements of MSOP **103-15670-00034**.
9 not in compliance with the requirements of MSOP **103-15670-00034**..

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
FAX NUMBER - 317 233-5967

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 ?_____, 100TONS/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:___Power Investments, Inc._____PHONE NO. (765)__689-7620_____
LOCATION: (CITY AND CO) 1175 North Hoosier Blvd., Peru, Indiana
PERMIT NO. _MSOP103-15670_____ AFS PLANT ID: 103-00034_____ AFS POINT ID:_____
_____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND
REASON:_____
_____
_

DATE/TIME MALFUNCTION STARTED: _____/_____/ 19____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:
_____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 19____ _____ 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:

_____
_____

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for a Minor Source Operating Permit (MSOP)

Source Name:	Power Investments, Inc.
Source Location:	1175 North Hoosier Boulevard, Peru, Indiana 46970
County:	Miami
SIC Code:	3743
MSOP No.:	103-15670-00034
Permit Reviewer:	Aida De Guzman

On August 2, 2002, the Office of Air Quality (OAQ) had a notice published in the Peru Daily Tribune, Peru, Indiana, stating that Power Investments, Inc. had applied for a Minor Source Operating Permit (MSOP) to operate a locomotive connecting rods and blowers manufacturing plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following revisions to the permit (changes are **bolded** and deletions are ~~struck-through~~ for emphasis).

1. The ten (10) oxyacethylene welding stations with process weight rate of 6.25 pounds per hour (equivalent to 150 pounds per day) are exempted from 326 IAC 6-3, since they are using less than 625 pounds of welding rod per day. This TSD Addendum will delete the 326 IAC 6-3 determination made on page 8 of 8 of the original TSD.

~~(iii) Ten oxyacetylene welding stations:~~

~~E = 4.10 $P^{0.67}$~~
~~= 4.10 $(6.25/2000)^{0.67}$~~
~~= 0.86 lbs/hr~~

~~The source is in compliance with this limit, as the welding PM uncontrolled emission is less than the PM allowable.~~

2. Condition D.2.1 will be revised to incorporate the above changes as follows:

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the glass bead shot blast unit shall not exceed 2.6 pounds per hour when operating at a process weight rate of 1000 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the cast iron shot blast unit shall not exceed 2.2 pounds per hour when operating at a process weight rate of 800 pounds per hour.

~~(c) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the ten (10) oxyacetylene welding stations shall not exceed a total of 0.086 pounds per hour when operating at a process weight rate of 6.25 pounds per hour.~~

The pounds per hour limitation from sections (a) **and** (b) ~~and (c)~~ of this condition shall be calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 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

On August 26, 2002, Power Investments, Inc. has submitted the following comments to the proposed MSOP:

Comment 1: Please clarify if the source is required to measure opacity in accordance with 40 CFR 60, Appendix A, Method 9 in order to document compliance with the opacity limitations in section C.7

Response 1: Pursuant to 326 IAC 5-1, Opacity Limitations is applicable to any facility that has the potential to emit particulate matter (PM) and the rule does not specify any significant level. However, there are no opacity related record keeping including Method 9 opacity readings or daily particulate emission notations required by this permit other than an appropriate statement in the Annual Compliance Certification.

The Permittee is not specifically required to perform a demonstration of compliance with this condition C.7. The Permittee may rely on more general information when certifying compliance with this condition.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor State Operating Permit (MSOP)

Source Background and Description

Source Name:	Power Investments, Inc.
Source Location:	1175 North Hoosier Boulevard, Peru, Indiana 46970
County:	Miami
SIC Code:	3743
MSOP No.:	103-15670-00034
Permit Reviewer:	Aida De Guzman

The Office of Air Quality (OAQ) has reviewed an application from Power Investments, Inc. relating to the operation of the following emission units used in the manufacture of locomotive connecting rods and blowers:

(a) One (1) dip coating tank with a maximum usage of 4.788 gallons of coating per hour;

(b) One (1) paint booth with a maximum capacity of 6 locomotive parts per day, using dry filters for PM overspray control;

(c) One (1) glass bead shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 60 pounds per square inch or 1000 pounds of media per hour (lb/hr), using a baghouse, identified as C-2 for particulate matter control;

(d) One (1) cast iron shot blast unit, with a 3/8 inch internal nozzle diameter, and a nozzle pressure of 50 pounds per square inch or 800 pounds of media per hour (lb/hr), using a baghouse, identified as C-1 for particulate matter control;

(e) Ten (10) oxyacetylene welding stations, with a maximum metal rod consumption of 0.625 pounds per hour per station;

(f) Various natural gas-fired space heaters, identified as H1 through H19 with a combined heat input capacity of 3.06 million British thermal units (mmBtu/hr);

(g) One (1) natural gas-fired dipseal tank, identified as K-13 with a maximum heat input capacity of 0.125 mmBtu/hr;

(h) One (1) natural gas-fired gear washer, identified as B-14 with a maximum heat input capacity of 0.20 mmBtu/hr;

(i) One (1) natural gas-fired blowers cleaning tank, identified as B-13 with a maximum heat input capacity of 0.225 mmBtu/hr;

(j) One (1) natural gas-fired carrier pin washer, identified as B-5 with a maximum rated capacity of 0.3 mmBtu/hr;

(k) Two (2) natural gas-fired head liner cleaning tanks, identified as B-10 and B-12 with a total maximum rated capacity of 0.75 mmBtu/hr; and

(l) Miscellaneous machining operation.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) Construction Permit CP103-7015-00034, issued on May 8, 1997

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
K-13	dipseal tank	10	2	1,000	ambient
B-14	gear washer	10	2	1,000	ambient
B-5	carrier, pin washer	10	2	1,000	ambient
B-10, B-12	head, liner cleaning tank	10	2	1,000	ambient
paint booth	paint booth	31	2	5,000	ambient
cast iron shot blast	blasting	10	2	2,000	ambient
glass shot blast	blasting	10	2	2,000	ambient

Recommendation

The staff recommends to the Commissioner that the re-permitting and operation of locomotive connecting rods and blowers manufacturing source be approved. This recommendation is based on the following facts and conditions:

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 May 28, 2002. Additional information was received on July 3, 2002.

Emission Calculations

(a) Surface Coating Operation: See Page 1 and 2 TSD Appendix A for detailed calculation.

(b) Dipping/Washing: See Page 1 and 2 TSD Appendix A for detailed calculations.

(c) Various Natural Gas Emission Units: See Page 3 of 5 TSD Appendix A for detailed calculations.

(d) Welding Operation: See Page 4 of 5 TSD Appendix A for detailed calculations.

(e) Shot Blasting Operation: See Page 5 of 5 TSD Appendix A for detailed calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	58.46
PM-10	12.82
SO_2	0.013
VOC	4.182
CO	1.715
NO_x	2.043

HAP's	Potential To Emit (tons/year)
Glycol Ethers	0.25
Xylene	1.01
MEK	0.76
Chromium compounds	0.09
Diethanolamine	0.14
Lead Compounds	0.08
Manganese	0.027
Nickel	0.0684
Worst Single HAP	1.01
Combined HAPs	2.425

Justification for the Approval Level

The source is being re-permitted pursuant to 326 IAC 2-6.1 Minor Source Operating Permit (MSOP), since the PM emissions are greater than 25 tons per year.

Actual Emissions

No previous emission data has been received from the source.

Source Status

Existing re-permitted Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year):

Pollutant	Emissions (ton/yr)
PM	3.17
PM10	0.98

SO_2	0.013
VOC	4.182
CO	1.715
NO_x	2.04
Single HAP	1.01
Combination HAPs	2.425

(a) This existing re-permitted source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

County Attainment Status

The source is located in Miami County.

Pollutant	Status
PM-10	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	not determined

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Miami County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Miami County has been classified as attainment or unclassifiable for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Part 70 Permit Determination

(a) 326 IAC 2-7 (Part 70 Permit Program)
This existing re-permitted source, is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:
(1) each criteria pollutant is less than 100 tons per year,
(2) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
(3) any combination of HAPs is less than 25 tons/year.

Federal Rule Applicability

(a) New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60)
(1) There are no NSPS applicable to this source.

(b) National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63):
(1) 40 CFR Part 63.460, Subpart T - National Emissions Standards for Halogenated

Solvent Cleaning. The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloromethane, carbon tetrachloride or chloroform, or any combination of these halogenated solvents in a total concentration greater than 5 percent by weight as a cleaning and/or drying agent.

This rule is not applicable to the gear washer, identified as B-14; blowers cleaning tank, identified as B-13; pin washer, identified as B-5; head liner cleaning tanks, identified as B-10 and B-12 tank, as they do not use any or combination of the halogenated solvents listed in the NESHAP.

State Rule Applicability - Entire Source

(a) 326 IAC 2-6 (Emission Reporting)
This source is not subject to 326 IAC 2-6 (Emission Reporting), because the PTE for VOC is not at a rate of 100 tons per year or greater.

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

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

(2) 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.

State Rule Applicability - Individual Facilities

(a) 326 IAC 8-2-9 (Miscellaneous Metal Coating)
The paint booth is subject to 326 IAC 8-2-9, since it can potentially have an actual emissions of greater than 15 pounds per day. Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the spray booth shall be limited to 3.5 pounds of VOCs per gallon of coating less water for extreme performance coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

The spray booth complies with the rule, since the coatings used have a volume weighted average of 1.53 pounds of VOC per gallon less water (see detailed calculations on Page 1 of 5 TSD Appendix A).

(b) 326 IAC 8-3 (Organic Solvent Degreasing Operations)
The gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12, were all constructed after 1990. These cleaning tanks are cold cleaner degreasers, since the solvent used is heated at a temperature below the solvent boiling point temperature, and

they have no remote solvent reservoirs. Therefore these degreasers are subject to the following:

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(1) Equip the cleaner with a cover;

(2) Equip the cleaner with a facility for draining cleaned parts;

(3) Close the degreaser cover whenever parts are not being handled in the cleaner;

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label summarizing the operation requirements;

(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

(c) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreasers without remote solvent reservoirs (gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12) located anywhere in the state of the types described in subdivision (1)(A) through (1)(C) of 326 IAC 8-2-1(b) and construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{O}C) (one hundred twenty degrees Fahrenheit (120^{O}F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the cold cleaner degreasers without remote solvent reservoirs (gear washer, identified as B-14; blowers cleaning tank, identified as B-13; carrier pin washer, identified as B-5; head liners cleaning tanks, identified as B10 and B12)) located anywhere in the state of the types described in subdivision (1)(A) through (1)(C) of 326 IAC 8-2-1(b) construction of which commenced after July 1, 1990 , shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

(d) 326 IAC 6-3-2 (Process Operations)

(1) The paint booth is subject to this rule, which requires that the booth shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

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

(ii) 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 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.

(2) 326 IAC 6-3, mandates a particulate emissions from the following processes using below equation:

$E = 4.10\ P^{0.67}$ Where: E = Rate of emission in pounds/hour
P = Process weight rate in tons/hour

(i) Glass bead shot blast unit:

$E = 4.10\ P^{0.67}$
$= 4.10\ (1000/2000)^{0.67}$
$= 2.6$ lbs/hr

Baghouse, C2 shall be in operation at all times to assure compliance with the PM limit.

(ii) Cast iron shot blast unit:

$E = 4.10\ P^{0.67}$
$= 4.10\ (800/2000)^{0.67}$
$= 2.2$ lbs/hr

Baghouse, C1 shall be in operation at all times to assure compliance with the PM limit.

(iii) Ten oxyacetylene welding stations:

$E = 4.10\ P^{0.67}$
$= 4.10\ (6.25/2000)^{0.67}$
$= 0.86$ lbs/hr

The source is in compliance with this limit, as the welding PM uncontrolled emission is less than the PM allowable.

(e) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired space heaters are not subject to this rule, as they are not sources of indirect heating.

Conclusion

The operation of this locomotive connecting rods and blowers shall be subject to the conditions of the attached **Minor Source Operating Permit 103-15670-00034.**

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations

Company Name: Power Investments, Inc.
Address City IN Zip: 1175 North Hoosier Blvd., Peru, IN 46970
MSOP No.: 103-15670
Plt ID: 103-00034
Reviewer: Aida De Guzman
Date Application Received: May 28, 2002

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/hour)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	Summation Coatings	Substrate
Paint Booth																		
Green	8.9	54.00%	0.0%	54.0%	0.0%	46.00%	0.06400	4.000	4.81	4.81	0.31	7.38	1.35	0.40	10.45	65%	0.2878848	locomotive metal blower
Aluminum	8.0	76.90%	0.0%	76.9%	0.0%	23.10%	0.02400	6.000	6.15	6.15	**0.89**	**21.26**	**3.88**	**0.41**	26.63	65%	0.15373848	locomotive metal screens
Dip Tank																		
Dipseal 300G (plastic coat)	8.0	0.00%	0.0%	0.0%	0.0%	0.00%	0.20000	6.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	0	metal connecting rods
Washing/Degreasing																		
199L Rust Protector	8.0	5.00%	0.0%	5.0%	0.0%	0.00%	0.08000	4.000	0.40	0.40	**0.03**	**0.77**	**0.14**	0.00	0.00	100%	0.03332	
Globrite	0.0	0.00%	0.0%	0.0%	0.0%	0.00%	0.16000	4.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	0	
State Potential Emissions			**Add worst case coating to all solvents**				**0.28800**				**0.92**	**22.03**	**4.02**	**0.41**			0.44162328	
METHODOLOGY										**Volume Weighted Ave.**	**1.53**							
										Controlled PM (95% dry filters Eff.)				**0.02**				

Summation Coating = (Densitycoat * Wt % Org. * quantity of coatings, gal/unit) / (1-vol % water * Densitycoat/density water)
Volume Weighted Average = Summation Coatings / Total coatings Used
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)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emission Calculations
HAP Emission Calculations

Company Name: Power Investments, Inc.
Address City IN Zip: 1175 North Hoosier Blvd., Peru, IN 46970
MSOP No.: 103-15670
Plt ID: 103-00034
Reviewer: Aida De Guzman
Date Application Received: May 28, 2002

Material	Density (Lb/Gal)	Gallons of Material (gal/hour)	Weight % Xylene	Weight % Glycol Ethers	Weight % MEK	Weight % Chromium	Weight % Dietanolamine	Weight % Lead Cmp	Xylene Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	MEK Emissions (ton/yr)	Chromium Emissions (ton/yr)	Diethanolamine Emissions (ton/yr)	Lead Cmp Emissions (ton/yr)
Paint Booth														
Aluminum	8	0.144000	20.00%	5.00%	15.00%	1.00%	0.00%	0.00%	1.01	0.25	0.76	0.05	0.00	0.05
Green	8.9	0.064000	12.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00	0.00	0.00	0.00	0.00	0.02
Dip Tank														
Dipseal 300G (plastic coat)	8	0.200000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Washing/Degreasing														
199L Rust Protector	8	0.080000	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00	0.00	0.00	0.00	0.14	0.00
Globrite	0	0.160000	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Total State Potential Emissions							**Single HAP**		**1.01**	**0.25**	**0.76**	**0.05**	**0.14**	**0.08**
							Combined HAPs				**2.28**			

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations

Natural Gas Combustion Only

space heaters @ 3.06 mmBtu/hr total
dipseal tank @ 0.125 mmBtu/hr
gear washer @ 0.2 mmBtu/hr
blowers cleaning tank
@ 0.225 mmBtu/hr
carrier pin washer @ 0.3 mmBtu/hr
head liner cleaning tanks @ 0.75 mmBtu/hr

MM BTU/HR <100

Small Industrial Boiler

Company Name: **Power Investments, Inc.**
Address City IN Zip: **1175 North Hoosier Blvd., Peru, IN 46970**
MSOP No.: **103-15670**
PIt ID: **103-00034**
Reviewer: **Aida De Guzman**
Date Application Received: **May 28, 2002**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
3.06	26.8
0.125	1.1
0.2	1.8
0.225	2.0
0.3	2.6
0.75	6.6

Pollutant

Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0	VOC 5.5	CO 84.0
3.06 mmBtu/hr	0.025	0.102	0.008	1.34	0.074	1.126
0.125	0.001	0.004	0.000	0.055	0.003	0.046
0.2	0.002	0.007	0.001	0.088	0.005	0.074
0.225	0.002	0.007	0.001	0.099	0.055	0.083
0.3	0.002	0.01	0.001	0.131	0.007	0.110
0.75	0.006	0.025	0.002	0.33	0.018	0.276
Total 'Potential Emission in tons/yr	0.038	0.155	0.013	2.043	0.162	1.715

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 3

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Methodology

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emissions Calculations
Particulate Emissions
From Welding Operations

Company Name: Power Investments, Inc.
Address City IN Zip: 1175 North Hoosier Blvd., Peru, IN 46970
MSOP No.: 103-15670
Plt ID: 103-00034
Reviewer: Aida De Guzman
Date: 28-May-02

Type of Weldin	Max. Electrode Consumption (lb/hr)	Emission Factors (lb/lb electrode)				Emissions			
		PM/PM10	Manganese	Nickel	Chromium	PM/PM10 (ton/yr)	Manganese (ton/yr)	Nickel (ton/yr)	Chromium (ton/yr)
Oxyacetylene Welding	6.25	0.0075	0.001	0.0025	0.0015	0.205313	0.027375	0.0684375	0.0410625

Methodology:
Emissions (tons/yr) = Maximum Electrode Consumption (lbs/hr) * Ef (lb/lb electrode) * 8706 hrs/yr * ton/2000 lb
Emission factors are from the SARA Reporting Guide.

Appendix A: Emissions Calculations
Particulate Emissions
From Shot Blasting Operations

Company Name: Power Investments, Inc.
Address City IN Zip: 1175 North Hoosier Blvd., Peru, IN 46970
MSOP No.: 103-15670
Plt ID: 103-00034
Reviewer: Aida De Guzman
Date: 28-May-02

Type of Blasting Media	Maximum Consumption (lb/hr)	Emission Factors		Uncontrolled Emissions (tons/yr)		Controlled Emissions (tons/yr)	
		PM (lbPM/lb Abrasive)	PM10 (lb PM10/lbPM)	PM	PM10	PM (ton/yr)	PM10 (ton/yr)
Glass Bead	1,000	0.01		43.8		2.19	
Cast Iron	800	0.004	0.86	14.016	12.05376	0.7008	0.602688

Methodology:
PM Emissions (tons/yr) = Maximum Consumption (lbs/hr) * Ef (lb/lb) * 8706 hrs/yr * ton/2000 lb
PM10 Emissions (tons/yr = PM10Ef (lb/lb) * ton/2000 lb * PM Emissions (tons/yr) * 2000 lb/ton)