Revised 3/30/05

PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY OPERATING PERMIT #2714

ROAD MACHINERY, LLC
3285 E. 44th STREET
TUCSON, AZ 85713

Effective: February 4, 2004 **Expires: February 3, 2009**

INTRODUCTION

Road Machinery, LLC, is a Heavy Equipment Dealer and Repair Shop that performs Rebuild, Repair and Maintenance work on heavy equipment parts for the Mining and Construction Industries.

Repair to the hydraulic pistons and wear parts often requires Hard Chrome Plating to make a clean seal or low friction surface. This is a Large, Hard Chromium Electroplating Facility.

There is a chrome plating facility on site, with two rectifiers. The Rectifier capacity is 3,000 Amps for one unit and 15,000 Amps for the other. The maximum cumulative potential rectifier capacity is much greater than the 60 million ampere-hours per year that defines the minimum capacity for a Large, Hard Chromium Electroplating Facility.

There is a small amount of painting done in the shop, mostly with water-based paints, and all done in a small paint booth to control overspray. Less than 91 gallons of water-based paints per year are used Any non-water-based painting is done from aerosol cans. There is also a sandblasting unit, but normally there is no more than 200 pounds of abrasive silica used per year. There are also seven degreasing tanks, of 30 gallon capacity each, using petroleum naphtha, all of which are serviced by Safety-Kleen. A gas torch, maximum rated capacity 1,000,000 BTU is used less than 8 hours per week. There are 4 - 8,000 BTU burners in a lead melter, used no more than 4 times per year. These are all determined to be Insignificant Activities.

Before controls, the Potential to Emit is estimated at .0026 Tons per year of Particulate Matter (PM10) and 0.00126 Tons per Year of Hexavalent Chromium, based on AP-42 Emission Factors. With Controls, the Emissions are, as displayed in the Table below, Insignificant.

Potential to Emit (tons per year) with Controls					
Nitrogen Oxides	Carbon Monoxide	Volatile Organic Compounds	Sulfur Dioxide	Particulate Matter (as PM_{10})	Hazardous Air Pollutants
Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant

Road Machinery, LLC, is a **True Minor Source for all Regulated Air Pollutants** but it is a Federal **HAP Area Source for Hexavalent Chromium**.

Terms and conditions of this permit that are Material Permit Conditions or are Federally Enforceable are specifically indicated as such.

Road Machinery, LLC
3285 East 44th Street
Tucson AZ, 85713
Permit #2714
Summary of Permit Requirements

This is an Equipment Maintenance and Repair Shop. As part of Repair and Maintenance, metal surfaces are anodized in a Chromium Acid bath, leaving a protective oxide coating on the metal surfaces, to help in preventing corrosion and wear.

Emission Unit	Pollutants Emitted	Control Measure	Emission Limits/Standards	Monitoring/ Recordkeeping	Reporting	Testing Frequency/Methods
1. Tanks T-1, T-2, T-4, T-5. 2. Rectifier - Rapid, Model 3000; Serial Number 489291-3000 Amp. 3. Rectifier - Rapid, Model 15,000; Serial Number 489292-15000 Amp. 4. Ventilation System Model KCH, Spectra U-4-10, Serial Number 17809; 9,624 CFM	PM_{10} Cr^{+6} (HAP)	Ventilation System and Composite mesh-pad Work Practices to Minimize Emissions, O&M Plan	Emissions shall not exceed .015 milligrams Cr/dscf of vent air. Work Practice Standards, O&M Plan. Maintain pressure drop, ±1", across composite mesh pads.	1. Daily monitor pressure drop of mesh pad 2. Quarterly inspection of a) the composite mesh pad systems. b)Back of mesh pad for breakthrough c) Ductwork from tank to control device d) Washdown of pads, manufacturers recommendation 3. Maintenance 4. Malfunctions and Excess Emissions 5. O & M Reporting 6. Testing 7. Compliance Monitoring 8. Operating Time and Equipment Capacity.	Initial Notifications Prompt reporting of deviations from permit requirements. Annual compliance certification. Emissions inventory report when requested. The Permittee shall submit semi-annual summary reports during periods in which a permit deviation occurs. Compliance Notification Performance test Reports	Initial Testing Stack Test within 60 days of issuance. Test Method 306 or 306A

Permit Issued To: Road Machinery, LLC
Permit #2714
PART A: GENERAL PROVISIONS
(References to PCC are references to Title 17 of the Pima County Code)

I. PERMIT EXPIRATION AND RENEWAL
[A.R.S. § 49-480.A., PCC 17.12.140.A., PCC 17.12.160.C.2., and PCC 17.12.180.A.1.]

A. This permit is valid for a period of five years from the date of issuance of the permit.

B. The Permittee shall submit an application for renewal of this permit at least 6 months, but not greater than 18 months prior to the date of permit expiration.

II. COMPLIANCE WITH PERMIT CONDITIONS [PCC 17.12.180.A.8.]

A. The Permittee shall comply with all conditions of this permit including all applicable requirements of Arizona air quality statutes and the air quality rules. Any permit noncompliance constitutes a violation of the Arizona Revised Statutes and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.

B. The need to halt or reduce activity is not a defense. It shall not be a defense, for a Permittee in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE [PCC 17.12.180.A.8.c. and PCC 17.12.270.]

A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination; or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

B. The permit shall be reopened and revised under any of the following circumstances.

1. Additional applicable requirements under the Act become applicable to a major source. Such reopening shall only occur if there are three or more years remaining in the permit term. The reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to PCC 17.12.280. Any permit reopening required pursuant to this paragraph shall comply with provisions in PCC 17.12.280 for permit renewal and shall reset the five-year permit term.

2. Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the Class I permit.

3. The Control Officer or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

4. The Control Officer or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.

C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance. Such reopenings shall be made as expeditiously as practicable. Permit reopenings for reasons other than those stated in paragraph III.B.1 of this Part shall not result in the resetting of the five-year permit term.

IV. POSTING OF PERMIT [PCC 17.12.080.]

A. The Permittee shall post such permit, or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by the permit shall be clearly marked with one of the following:

1. Current permit number.

2. A Serial number or other equipment number that is also listed in the permit to identify that piece of equipment.

B. In the event that the equipment is so constructed or operated that such permit cannot be so placed, the permit shall be mounted so as to be clearly visible in an accessible place within a reasonable distance of the equipment or maintained readily available at all times on the operating premises.

C. A copy of the complete permit shall be kept on the site.

V. FEE PAYMENT [PCC 17.12.180.A.9. and PCC 17.12.510.]

The Permittee shall pay fees to the Control Officer pursuant to A.R.S. § 49-480.D and PCC 17.12.510.

VI. ANNUAL EMISSIONS INVENTORY QUESTIONNAIRE [PCC 17.12.320.]

A. The Permittee shall complete and submit to the Control Officer an annual emissions inventory questionnaire. The questionnaire is due by March 31 or ninety days after the Control Officer makes the inventory form available each year, whichever occurs later, and shall include emission information for the previous calendar year.

B. The questionnaire shall be on a form provided by the Control Officer and shall include the information required by PCC 17.12.320.

VII. COMPLIANCE CERTIFICATION [PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]

Permittee shall submit to the Control Officer a compliance certification that describes the compliance status of the source with respect to each permit condition. Certifications shall be submitted as specified in Part B.III.A of this permit.

A. The compliance certification shall include the following:

1. Identification of each term or condition of the permit that is the basis of the certification;

2. Compliance status of each applicable requirement;

3. Whether compliance was continuous or intermittent;

4. Methods used for determining the compliance status of the source, currently and over the reporting period;

5. All instances of deviations from permit requirements reported pursuant to Section XIII.B.3 of this Part;

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS [PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

IX. INSPECTION AND ENTRY [PCC 17.12.210.A.4.]

The Permittee shall allow the Control Officer or the authorized representative of the Control Officer upon presentation of proper credentials to:

A. Enter upon the Permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;

B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;

C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and

E. Record any inspection by use of written, electronic, magnetic and photographic media.

X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD [PCC 17.12.160.C.4.]

If this source becomes subject to a standard promulgated by the Administrator pursuant to section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

XI. AFFIRMATIVE DEFENSES FOR EXCESS EMISSIONS DUE TO MALFUNCTIONS, STARTUP, AND SHUTDOWN [A.R.S. §49-480.B, A.A.C. 18-2-310, and PCC 17.28.065.]

A. Applicability. This permit condition establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

1. Promulgated pursuant to Sections 111 or 112 of the Act,

2. Promulgated pursuant to Titles IV or VI of the Clean Air Act,

3. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. E.P.A.,

4. Contained in PCC 17.16.280.F, or

5. Included in a permit to meet the requirements of PCC 17.16.590.A.5.

B. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. The owner or operator of a source with emissions in excess of an applicable emission limitation due to malfunction has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the owner or operator of the source has complied with the reporting requirements of XIII.B of this Part and has demonstrated all of the following:

1. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the operator;

2. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;

3. If repairs were required, the repairs were made in an expeditious fashion when the

applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the owner or operator satisfactorily demonstrated that the measures were impracticable;

4. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

5. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

6. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

7. During the period of excess emissions there was no exceedance of the relevant ambient air quality standards established in PCC Chapter 17.08 that could be attributed to the emitting source;

8. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;

9. All emissions monitoring systems were kept in operation if at all practicable; and

10. The owner or operator's actions in response to the excess emissions were documented by contemporaneous records.

C. Affirmative Defense for Startup and Shutdown

1. Except as provided in XI.C.2, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. The owner or operator of a source with emissions in excess of an applicable emission limitation due to startup and shutdown has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the owner or operator of the source has complied with the reporting requirements of XIII.B of this Part and has demonstrated all of the following:

   a. The excess emissions could not have been prevented through careful and prudent planning and design;

   b. If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;

   c. The source's air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;

d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

f. During the period of excess emissions there was no exceedance of the relevant ambient air quality standards established in PCC Chapter 17.08 that could be attributed to the emitting source;

g. All emissions monitoring systems were kept in operation if at all practicable; and

h. The owner or operator's actions in response to the excess emissions were documented by contemporaneous records.

2. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to XI.B.

D. Affirmative Defense for Malfunctions During Scheduled Maintenance

If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to XI.B.

E. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under XI.B or C, the owner or operator of the source shall demonstrate, through submission of the data and information required by this Section and XII.B, that all reasonable and practicable measures within the owner or operator's control were implemented to prevent the occurrence of the excess emissions.

XII. RECORD KEEPING REQUIREMENTS [PCC 17.12.180.A.4.]

A. The Permittee shall keep records of all required monitoring information including, but not limited to, the following:

1. The date, place as defined in the permit, and time of sampling or measurements;

2. The date each analysis was performed;

3. The name of the company or entity that performed the analyses;

4. A description of the analytical techniques or methods used;

5. The results of such analyses; and

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

B. The Permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

XIII. REPORTING REQUIREMENTS [PCC 17.12.180.A.5.a.]

The Permittee shall comply with all of the reporting requirements of this permit. These include all of the following:

A. Compliance certifications pursuant to Part A, Section VII of this permit.

B. Excess Emissions Reporting Requirements [A.R.S. §49-480.B, and A.A.C. 18-2-310.01.]

1. The owner or operator of any source shall report to the control officer any emissions in excess of the limits established by this permit. The report shall be in two parts as specified below:

   a. Notification by telephone or facsimile within 24 hours of the time the owner or operator first learned of the occurrence of excess emissions that includes all available information from XIII.B.2.

   b. Detailed written notification by submission of an excess emissions report within 72 hours of the notification under XIII.B.1.a.

2. The excess emissions report shall contain the following information:

   a. The identity of each stack or other emission point where the excess emissions occurred;

   b. The magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;

   c. The time and duration or expected duration of the excess emissions;

   d. The identity of the equipment from which the excess emissions emanated;

   e. The nature and cause of the emissions;

   f. The steps taken, if the excess emissions were the result of a malfunction, to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunctions;

g. The steps that were or are being taken to limit the excess emissions; and

h. If the source's permit contains procedures governing source operation during periods of startup or malfunction and the excess emissions resulted from startup or malfunction, a list of the steps taken to comply with the permit procedures.

3. In the case of continuous or recurring excess emissions, the notification requirements of this Section shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in the notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period or changes in the nature of the emissions as originally reported shall require additional notification pursuant to XIII.B.1 and 2.

C. Permit Deviations (Other Than Excess Emissions) Reporting Requirements. The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. For the purposes of this condition, "promptly report" shall mean that the Permittee submitted the report to the control officer by certified mail or hand-delivery within two working days of the time the deviation was discovered.

D. Reporting requirements listed in Part B of this permit.

XIV. DUTY TO PROVIDE INFORMATION [PCC 17.12.160.G. and PCC 17.12.180.A.8.e.]

A. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee, for Class I sources, shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

B. If the Permittee has failed to submit any relevant facts or if the Permittee has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

XV. PERMIT AMENDMENT OR REVISION [PCC 17.12.240., PCC 17.12.250., and PCC 17.12.260.]

Permittee shall apply for a permit amendment or revision for changes to the facility which do not qualify for a facility change without revision under Section XVI, as follows:

A. Administrative Permit Amendment (PCC 17.12.240.);

B. Minor Permit Revision (PCC 17.12.250.);

C. Significant Permit Revision (PCC 17.12.260.).

The applicability and requirements for such action are defined in the above referenced regulations.

XVI. FACILITY CHANGE WITHOUT PERMIT REVISION [PCC 17.12.230.]

A. Permittee may make changes at the permitted source without a permit revision if all of the following apply:

1. The changes are not modifications under any provision of Title I of the Act or under A.R.S. § 49-401.01(24).

2. The changes do not exceed the emissions allowable under the permit whether expressed therein as a rate of emissions or in terms of total emissions.

3. The changes do not violate any applicable requirements or trigger any additional applicable requirements.

4. The changes satisfy all requirements for a minor permit revision under PCC 17.12.250.

5. The changes do not contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

B. The substitution of an item of process or pollution control equipment for an identical or substantially similar item of process or pollution control equipment shall qualify as a change that does not require a permit revision, if it meets all of the requirements of subsections (A) and (C) of this Section.

C. For each such change under subsections A and B of this Section, a written notice by certified mail or hand delivery shall be received by the Control Officer and, for Class I permits, the Administrator, a minimum of 7 working days in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided less than 7 working days in advance of the change but must be provided as far in advance of the change as possible or, if advance notification is not practicable, as soon after the change as possible. Each notification shall include:

1. When the proposed change will occur.

2. A description of each such change.

3. Any change in emissions of regulated air pollutants.

4. The pollutants emitted subject to the emissions trade, if any.

5. The provisions in the implementation plan that provide for the emissions trade

with which the source will comply and any other information as may be required by the provisions in the implementation plan authorizing the trade.

6. If the emissions trading provisions of the implementation plan are invoked, then the permit requirements with which the source will comply.

7. Any permit term or condition that is no longer applicable as a result of the change.

XVII. TESTING REQUIREMENTS [PCC 17.12.050.]

A. Operational Conditions During Testing

Tests shall be conducted during operation at the normal rated capacity of each unit, while operating at representative operational conditions unless other conditions are required by the applicable test method or in this permit. With prior written approval from the Control Officer, testing may be performed at a lower rate. Operations during start-up, shutdown, and malfunction (as defined in PCC 17.04.340.A.) shall not constitute representative operational conditions unless otherwise specified in the applicable requirement.

B. Test Plan

At least 14 calendar days prior to performing a test, the owner or operator shall submit a test plan to the Control Officer, in accordance with PCC 17.12.050.B, and the Arizona Testing Manual. This test plan must include the following:

1. test duration;

2. test location(s);

3. test method(s); and

4. source operation and other parameters that may affect test results.

C. Stack Sampling Facilities

Permittee shall provide or cause to be provided, performance testing facilities as follows:

1. Sampling ports adequate for test methods applicable to the facility;

2. Safe sampling platforms;

3. Safe access to sampling platforms; and

4. Utilities for sampling and testing equipment.

D. Interpretation of Final Results

Each performance test shall consist of three separate runs using the required test method.

Each run shall be conducted in accordance with the applicable standard and test method. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. If a sample is accidentally lost or conditions occur which are not under the Permittee's control and which may invalidate the run, compliance may, upon the Control Officer's approval, be determined using the arithmetic mean of the other two runs.

E. Report of Final Test Results

A written report of the results of all performance tests shall be submitted to the Control Officer within 30 days after the test is performed. The report shall be submitted in accordance with the Arizona Testing Manual and PCC 17.12.050.A.

F. Cessation of Testing After the First Run has started.

If the Control Officer or the Control Officer's designee is not present, tests may only be stopped for good cause. Good cause includes, forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions or other conditions beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation that demonstrates good cause must be submitted.

XVIII. PROPERTY RIGHTS [PCC 17.12.180.A.8.d.]

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

XIX. SEVERABILITY CLAUSE [PCC 17.12.180.A.7.]

The provisions of this permit are severable. If any provision of this permit is held invalid, the remainder of this permit shall not be affected thereby.

XX. PERMIT SHIELD [PCC 17.12.310.]

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements identified in Part C of this permit. The permit shield shall not apply to any change made pursuant to Section XV.B of this Part and Section XVI of this Part.

XXI. ACCIDENT PREVENTION REQUIREMENTS UNDER THE CLEAN AIR ACT [CAA Section 112(r)]

Should this stationary source, as defined in 40 CFR Part 68.3, become subject to the Accidental Release Prevention Regulations in Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the semiannual compliance certification as required by 40 CFR Part 70 and Part B of this Permit.

PART B: SPECIFIC CONDITIONS

Air Quality Permit #2714

Road Machinery, LLC

Note: This Part B contains equipment specific requirements for the operations of the Road Machinery, LLC, plant located at 3258 East 44th Street in Tucson, Arizona.

I. APPLICABILITY

Affected Emission Source Classification.

Class II; True Minor Source; Stationary Source; Federal HAP Area Source.

This is a Large Hard Chromium Electroplating Facility Utilizing a Chromic Acid Bath with a Composite Mesh-Pad Mist Suppressor System
[Federally Enforceable] [40CFR63.341(a)]

A. Affected Emission Source or Process

1. Large Hard Chromium Electroplating Tank T-1
   Capacity - 800 Gallons
   Size: 36" X 36" X 156"

2. Chrome Etch Tank T-2
   Capacity - 800 Gallons
   Size: 36" X 36" X 156"

3. Large Hard Chromium Electroplating Tank T-4
   Capacity - 1278 Gallons
   Size: 84" X 36" X 96"

4. Large Hard Chromium Electroplating Tank T-5
   Capacity - 1278 Gallons
   Size: 84" X 36" X 96"

5. 3,000 Amp Rectifier, R-1
   Make: Rapid, 3000
   Serial Number: 489291

6. 15,000 Amp Rectifier, R-2
   Make: Rapid, 15,000
   Serial Number: 489292

7. Ventilation System, Composite Mesh-Pad Mist Suppressor V-1
Make: KCH, Spectra U-4-10
Serial Number: 17809
Capacity: 9,624 Cubic Feet per Minute

B. This source is subject to the provisions of Subpart N, 40 CFR 63.340 to 347. The EPA has deferred this source category from these permitting requirements until December 9, 2004, if the source is not a major source and is not located at a major source as defined under 40 CFR 63.2 or 70.2 and is not otherwise required to obtain a Title V Permit. Unless the EPA defers this source category from these Title V permitting requirements again, the Permittee must submit a Title V permit application by December 9, 2005. The Permittee must continue to comply with the provisions of 40 CFR 63.340 to 63.347, Subpart N, even if a deferral from Title V permitting requirements is received.
[Federally Enforceable] [40CFR63.340(e)(2)]

C. Insignificant Activities

1. Water-based painting, Aerosol Spray painting, Spray Paint Booth
2. Sandblasting unit, less than 300 pounds of Medium per year
3. 7 Safety Kleen degreasing tanks, 30 gallons of Petroleum naphtha each, service under contract by Safety Kleen.
4. Gas Torch, 1,000,000 BTU maximum, less than 8 hours per week.
5. Lead melter, used no more than 4 times per year, with 4 - 8000 BTU burners.

II. STANDARDS

A. Applicability of emission limits [40CFR63.342(b)]

1. The emission limitations of this section apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for this type of source. The emission limitations do not apply during periods of malfunction, but the work practice standards that address operation and maintenance and that are required by Section II.C of Part "B", must be followed during malfunctions.
[Federally Enforceable] [40CFR63.342(b)(1)]

2. If an owner or operator is controlling a group of tanks with a common add-on air pollution control device, the emission limitations of paragraph II.B. of this Part "B" apply whenever any one affected source is operated. The emission limitation that applies to the group of affected sources is:

The emission limitation identified in II.B. of this Part "B" if the affected sources are performing the same type of operation (e.g., hard chromium electroplating), are subject to the same emission limitation, and are not controlled by an add-on air pollution control device also controlling nonaffected sources; **[Federally Enforceable]** [40CFR63.342(b)2.i]

B. Standards for Large Hard Chromium Electroplating Tanks

[Federally Enforceable] [40CFR63.342(c)(1)]

During tank operation, each owner or operator of an existing, new, or reconstructed affected source shall control chromium emissions discharged to the atmosphere from that affected source by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.015 milligrams of total chromium per dry standard cubic meter (mg/dscm) of ventilation air ($6.6X10^{-6}$ grains per dry standard cubic foot (gr/dscf)).

[Federally Enforceable] [40CFR63.342(c)(1)i]

C. Work Practice Standards. [40CFR63.342(f)]

The Work Practice Standards of this section address operation and maintenance practices. The Permittee is subject to these work practice standards.

1. The Operation and Maintenance Plan. [PCC17.12.110] [40CFR63.342(f)3]

The Permittee shall prepare an Operation and Maintenance Plan and forward a copy to the Control Officer. (The requirement to prepare an Operation and Maintenance Plan is Federally Enforceable, but the requirement to forward a copy of the plan to the Control Officer is not Federally Enforceable.) The Operation and Maintenance Plan shall include the following elements:

a. The Operation and Maintenance Plan shall specify the operation and maintenance criteria for the Large Hard Chromium Electroplating, the add on air pollution control device (if the device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

b. The Operation and Maintenance Plan shall incorporate at least, but not limited to, the work practice standards as specified in 40 CFR63.342 Table 1, procedures to be followed to ensure that the composite mesh pad equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur, as follows:

i) Once per quarter of a year, visually inspect device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device.

ii) Once per quarter of a year, visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.

iii) Once per quarter of a year, visually inspect ductwork from tank to the control device to ensure there are no leaks.

iv) Perform washdown of the composite mesh-pads in accordance with manufacturer's recommendations.

c. The Operation and Maintenance Plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions;

2. If the Operation and Maintenance Plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the Permittee shall revise the Operation and Maintenance Plan within 45 days after such an event occurs. The revised Plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.
[Federally Enforceable] [40CFR63.342(f)3(ii)]

3. At all times, including periods of startup, shutdown and malfunction, the Permittee shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, and consistent with the Operation and Maintenance Plan referenced in Part B.II.C of this Permit.
[Federally Enforceable] [40CFR63.342(f)1(i)]

4. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the Operation and Maintenance Plan.
[Federally Enforceable] [40CFR63.342(f)1(ii)]

5. Operation and maintenance requirements established pursuant to Section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards. **[Federally Enforceable]** [40CFR63.342(f)1(iii)]

6. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.
[Federally Enforceable] [40CFR63.342(f)2(i)]

7. Based on the results of a determination made under paragraph II.B.4 of this Section, the Control Officer may require that the Permittee make changes to the Operation and Maintenance Plan. Revisions may be required if it is determined that the Plan: **[Federally Enforceable]** [40CFR63.342(f)2(ii)]

a. Does not address a malfunction that has occurred;

b. Fails to provide for the operation of the affected source , the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practice; or

c. Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

8. Copies of the revised Operation and Maintenance Plan, revised either for the situations described in Section II.C.2, or for any other reason, shall be forwarded to the Control Officer. [PCC17.12.110]

D. The Permittee shall comply with the requirements of 40CFR 63.342 on and after the compliance date, 2 years after January 25,1995. This source is regulated by application of maximum achievable control technology. **[Federally Enforceable]** [40CFR63.342(a)]

III. MONITORING

A. Initial Compliance.

The Permittee shall have conducted an initial performance test as required by 40CFR 63.7. **[Federally Enforceable]** [40CFR63.343(b)1]

B. Compliance Monitoring.

1. An initial performance test shall determine the outlet chromium concentration using Test Method 306 or 306A, and shall establish as an operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation, using the procedures in this Part "B" VI.C. The Permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the three test runs of one performance test and accept ±1 inch of water column from this value as the compliant range. **[Federally Enforceable]** [40CFR 63.343(c)1(i)]

2. On and after the date on which the initial performance test is required to be completed, the Permittee shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ±1 inch of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests. **[Federally Enforceable]** [40CFR 63.343(c)1(ii)]

IV. RECORDKEEPING **[Federally Enforceable]** [40CFR63.346]

A. The Permittee shall maintain records as required in XII.A of Part "A" of this Permit.

[PCC 17.12.180.A.4]

B. The Permittee shall maintain the following records:

1. Inspection records for the add-on pollution control device , if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of Part "B", Section II.C have taken place. The record can take the form of a checklist and should identify the device inspected, the date of the inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection. **[Federally Enforceable]** [40CFR63.346(b)1]

2. Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;
[Federally Enforceable] [40CFR63.346(b)2]

3. Records of the occurrence, duration and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;
[Federally Enforceable] [40CFR63.346(b)3]

4. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
[Federally Enforceable] [40CFR63.346(b)4]

5. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required in Part"B" Section C.1.
[Federally Enforceable] [40CFR63.346(b)5]

6. Test reports documenting results of all performance tests;
[Federally Enforceable] [40CFR63.346(b)6]

7. All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of Part"B" Section II.A.2;
[Federally Enforceable] [40CFR63.346(b)7]

8. Records of monitoring data required by Part "B" Section III. that are used to demonstrate compliance with the standard including the date and time the data are collected;
[Federally Enforceable] [40CFR63.346(b)8]

9. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment; **[Federally Enforceable]** [40CFR63.346(b)9]

10. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data,

that occurs during other than malfunction of the process, add-on air pollution control, or monitoring equipment; **[Federally Enforceable]** [40CFR63.346(b)10]

11. The total process operating time of the affected source during the reporting period; **[Federally Enforceable]** [40CFR63.346(b)11]

12. Records of the actual cumulative rectifier capacity of hard chromium electroplating tanks at a facility expended during each month of the reporting period, and the total capacity expended to date for a reporting period, if the Permittee is using the actual cumulative rectifier capacity to determine facility size in accordance with Part "B" Section II.B.
[Federally Enforceable] [40CFR63.346(b)12]

13. Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements, if the source has been granted a waiver under 40CFR63.10(f); and
[Federally Enforceable] [40CFR63.346(b)15]

14. All documentation supporting the notifications and reports required by 40CFR63.9, 10, and 347. **[Federally Enforceable]** [40CFR63.346(b)16]

C. All records must be kept and maintained for a period of five years, and shall be made available, during that time, upon reasonable request, to Department personnel.
[Federally Enforceable] [40CFR63.347(c)]

D. If actions taken by the Permittee during periods of malfunction are inconsistent with procedures specified in the Operation and Maintenance Plan required by II.C.1 of Part "B" of this Permit, the owner or operator shall record the actions taken for that event and shall report such actions in accordance with Part "B" V.E.2.
[Federally Enforceable] [40CFR63.342(f)3(iv)]

E. The Permittee shall keep the written Operation and Maintenance Plan on record after it is developed, and make it available for inspection, upon request, by the Control Officer for the life of the affected source, or until the source is no longer subject to the provisions of 40CFR63 Subpart N. In addition, if the Operation and Maintenance Plan is revised, the Permittee shall keep previous (i.e., superseded) versions of the Operation and Maintenance Plan on record and available for inspection, upon reasonable request, by the Control Officer for a period of 5 years after each revision to the Plan.
[Federally Enforceable] [40CFR63.342(f)3(v)]

F. Location of Records.

The Permittee shall retain all records relating to this permit, and a copy of this Permit at the Permit site. The Permittee shall comply with the Permit Posting requirements of Part A, Section IV of this Permit. All records shall be maintained in accordance with the

requirements of Part A, Section XII of this Permit. [PCC17.12.080.]

V. REPORTING REQUIREMENTS [PCC 17.12.180.A.5. and PCC 17.12.210.]

A. Reporting shall be in accordance with Sections VI, VII and XIII of Part A of this Permit.

B. Initial Notifications. **[Federally Enforceable]** [40CFR63.347(c)]

1. The Permittee shall have notified the Control Officer in writing no later than 180 days after January 25, 1995, if the source had an initial startup before January 25, 1995, that the source is subject to Subpart N. This initial notification shall have contained the following information:

   a. The name, title, and address of the Permittee;

   b. The address of the affected source;

   c. A statement that 40CFR 63. Subpart N is the basis for this notification;

   d. Identification of the applicable emission limitation and compliance date for the affected source;

   e. A brief description of the affected source, including the type of process operation performed;

   f. The maximum potential cumulative potential rectifier capacity;

   g. A statement of whether the affected source is located at a small or large, hard chromium electroplating facility and whether this will be demonstrated through actual or maximum potential cumulative rectifier capacity;

   h. A statement of whether the Permittee will limit the maximum potential cumulative rectifier capacity in accordance with 40CFR 63.342(c)(2) such that the hard chrome plating facility is considered small; and

   i. A statement of whether the affected source is located at a major source or an area source as defined in 40CFR 63.2.

2. The owner or operator of a new or reconstructed affected source that has an initial startup after January 25,1995 shall have submitted an initial notification (in addition to the notification of construction or reconstruction required by 40CFR 63.345(b)) as follows:

   a. A notification of the date when construction or reconstruction was commenced, shall be submitted simultaneously with the notification of construction or reconstruction, if construction or reconstruction was commenced before January 25, 1995;

b. A notification of the date when construction or reconstruction was commenced, shall be submitted no later than 30 calendar days after such date, if construction or reconstruction was commenced after January 25, 1995; and

c. A notification of the actual date of startup of the source shall be submitted within 30 calendar days after such date.

C. Compliance Certification Reporting. [PCC 17.12.210.]

The Permittee shall submit an annual compliance certification to the Control Officer pursuant to Part A, Section VII. The compliance certification report shall be due on January 31st of each year, and shall cover the previous calendar year. The first Annual Compliance Certification might not cover a full calendar year, but shall cover the time period from the Date of Issuance of this permit to December 31st of the same year.

D. Excess Emissions Reporting.

Any occurrence of Excess Emissions shall be immediately reported in writing to the Control Officer in the format described in Section XIII, Subsection B of Part A of this Permit. [PCC 17.16.340.J]
In addition: **[Federally Enforceable]** [40CFR 63.347.h.2]

1. If both the following conditions are met, semi-annual reports shall be prepared and submitted to the Control Officer:

   (a) The total duration of excess emissions(as indicated by the monitoring data collected by the Permittee in accordance with Part "B" Section III MONITORING of this Permit) is 1 percent or greater of the total operating time for the reporting period; and

   (b) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

2. Once the Permittee reports an exceedance, as defined in Paragraph D.1 of this Section, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under Paragraph K of this section is approved.

3. The Control Officer may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately asses the compliance status of the source.

E. Deviation from Permit Requirements.

1. Any deviation from the permit requirements shall be promptly reported to the

Control Officer.

2. If actions taken by the owner or operator during periods of malfunction are inconsistent with procedures specified in the Operations and Maintenance Plan, records required in Part B, IV.B of such actions shall be reported to the Control Officer by telephone within 2 working days after commencing actions inconsistent with the Plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Control Officer.

[Federally Enforceable] [40CFR63.342(f)3(iv)]

F. Annual Emissions Inventory Reporting. [PCC 17.12.320]

The Permittee shall complete and submit to the control officer, when requested, an annual emissions inventory questionnaire pursuant to 17.12.320 of the Pima County Code. (See Section VI of Part A of this Permit.)

G. Semi-Annual Summary Reporting of Required Monitoring. [PCC 17.12.180.A.5.a]

The Permittee shall submit a Semi-Annual Summary Report of all required monitoring to the Control officer only if permit deviations have occurred during the reporting period. These Semi-Annual Summary Reports, when required, shall contain the reports of all permit deviations that have occurred during the reporting period. Semi-Annual Summary Reports of required monitoring shall be due on January 31st and July 31st of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first Semi-Annual Summary Report might not cover a full six-month period.

H. Notification of Compliance Status. **[Federally Enforceable]** [40CFR63.347(e)]

1. A notification of compliance status is required each time that an affected source becomes subject to the requirements of 40CFR 63 Subpart N.

2. The notification of compliance status shall be submitted to the Control Officer. The notification shall list for each affected source:

   a. The applicable emission limitation and the methods that were used to determine compliance with this limitation;

   b. If a performance test is required, the test report documenting the results of the performance test, which contains the elements required by Part "B" Section VI.B.

   c. The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of 40CFR 63.344(e) to comply with the standards.

   d. For each monitored parameter for which a compliant value is to be established, the specific operating parameter value, or range of values,

that corresponds to compliance with the applicable emission limit;

e. The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in this permit;

f. A description of the air pollution control technique for each emission point;

g. A statement that the Permittee has completed and has on file the operation and maintenance plan as required by the work practice standards in Part "B" Section II.C

h. A statement by the permittee as to whether the source has complied with the requirements of 40CFR 63. Subpart N.

3. For sources required to conduct an initial performance test, the notification of compliance status shall have been submitted to the Director no later than 90 calendar days following completion of the compliance demonstration.

4. For sources that are not required to complete an initial performance test , the notification of compliance status shall be submitted to the Director no later than 30 days after the compliance date of 2 years after January 25, 1995, as specified in 40CFR 63.343(a)(1)(ii).

I. Ongoing Compliance Status Report. **[Federally Enforceable]** [40CFR63.347(h), (g)(3)]

The Permittee shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall be completed annually and be retained on site. It must be made available to the Control Officer on request. It must contain the following information:

1. The company name and address of the affected source;

2. An identification of the operating parameter that is monitored for compliance determination, as required in Part "B" III B. and 40CFR 63.343(c)(1)(i).

3. The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by paragraph 40CFR 63.347(e);

4. The beginning and ending dates of the reporting period;

5. A description of the type of process performed in the affected source during the reporting period;

6. The total operating time of the affected source during the reporting period;

7. If the Permittee is limiting the maximum cumulative rectifier capacity in accordance with 40CFR 63.342(c)(2), the actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis;

8. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;

9. A certification by a responsible official, as defined in 40CFR 63.2, that the work practice standards in Part"B" II.C. of this permit were followed in accordance with the operation and maintenance plan for the source;

10. If the operation and maintenance plan required by this Permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by 40CFR 63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;

11. A description of any changes in monitoring, processes, or controls since the last reporting period;

12. The name, title, and signature of the responsible official who is certifying the accuracy of the report; and

13. The date of the report.

J. Performance Test Reports. **Federally Enforceable** [40CFR63.347(f)2]

Reports of performance test results shall be submitted no later than 90 days following completion of the performance test, and shall be submitted as part of the notification of compliance status required by Part "B" Section V.H. of this Permit.

K. 1. If the Permittee is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of maintaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report onsite if the following conditions are met:

(a) For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit;

(b) The Permittee continues to comply with all applicable recordkeeping and monitoring requirements of Subpart A of 40CFR 63. and this Permit; and

(c) The Control Officer does not object to a reduced reporting frequency for

the affected source, as provided in Paragraphs D

2. The frequency of submitting ongoing compliance status reports may be reduced only after the Permittee notifies the Control Officer in writing of his or her intention to make such a change, and the Administrator does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the Control Officer may review information concerning the source's previous performance history during a 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of the Permittee's performance with emission limitations and work practice standards. Such information may be used by the Control Officer to make a judgement about the source's potential for noncompliance in the future. If the Control Officer disapproves the Permittee's request to reduce the reporting frequency, the control Officer will notify the Permittee in writing within 45 days after receiving notice of the Permittee's intention. The notification from the Control Officer to the Permittee will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

3. As soon as the monitoring data required by Part "B" Section III show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the Permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the Permittee may again request approval from the Control Officer to reduce the frequency as allowed by Paragraph K of this Section.

VI. TESTING REQUIREMENTS **[Federally Enforceable]** [40CFR63.343(c)1(i)] [PCC 17.12.050]

A. The Permittee shall have conducted an initial performance test as required under 40 CFR 63.7, using the procedures and test methods listed in 40CFR63.7 and 63.344(c)(1).
[Federally Enforceable] [40CFR63.343(b)(1)]

B. The Permittee shall, upon request by the Control Officer, conduct a performance test to measure the Chromium Emissions from the Hard Chromium Electroplating Operations. The test plan to be followed shall be made available to the Control Officer prior to the testing, if requested. Performance test results shall be documented in complete test reports that contain the following information:

1. A brief process description;

2. Sample location descriptions;

3. A description of sampling and analytical procedures and any modifications to standard procedures;

4. Test results;

5. Quality assurance procedures and results;

6. Records of operating conditions during the test, preparation of standards, and calibration procedures.

7. Raw data sheets for field sampling and field and laboratory analyses;

8. Documentation of calculations; and

9. Any other information required by the test method.

[Federally Enforceable][40CFR 63.344(a)][PCC 17.12.030.A/050; PCC 17.20.010.B]

C. The opacity of visible emissions shall be determined by Reference Method 9 of the Arizona Testing Manual.

[PCC 17.12.040.B]

D. The sampling time and sample volume for each run of Method 306 and Method 306A shall be at least 120 minutes and 1.70 dscm (60dscf), respectively. Methods306 and 306A of 40CFR Part 63, Appendix A allow the measurement of either total chromium or hexavalent chromium emissions. For the purposes of this standard, sources using chromic acid baths can demonstrate compliance with the emission limit by measuring either total chromium or hexavalent chromium. Hence, the hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations. **[Federally Enforceable]** [40CFR63.344.c.1]

E. All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.

1. Specifications for differential pressure measurement devices used to measure velocity pressure shall be in accordance with section 2.2 of Method 2 (40 CFR Part 60, Appendix A). **[Federally Enforceable]** [40CFR63.344(d)2(i)]

2. Specifications for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications. **[Federally Enforceable]** [40CFR63.344(d)2(ii)]

F. The Permittee shall measure the pressure drop across the add-on air pollution control device in accordance with 40 CFR 63.343(c) (1) through (4), and may establish the pressure drop in accordance with the following guidelines:

1. Pressure taps shall be installed at any of the following locations:

(a) At the inlet and outlet of the control system. The inlet tap shall be installed in the ductwork just prior to the control device and the corresponding outlet pressure tap should be installed on the outlet side of

the control device prior to the blower or on the downstream side of the blower;

(b) On each side of the packed bed within the control system or on each side of each mesh pad within the control system; or

(c) On the front of the first mesh pad and back side of the last mesh pad within the control system.

2. Pressure taps shall be sited at locations that are:

(a) Free from pluggage as possible and away from any flow disturbances such as cyclonic demisters.

(b) Situated such that no air infiltration at measurement site will occur that could bias the measurement.

3. Pressure taps shall be constructed of either polyethylene, polybutene, or other nonreactive materials.

4. Nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop.

5. Any of the following pressure gauges can be used to monitor pressure drop: a magnehelic gauge, an inclined manometer, or a "U"-tube manometer.

6. Prior to connecting any pressure gauge(s), each gauge should be zeroed. No calibration of the pressure gauges is required.

[Federally Enforceable] [40CFR63.344(d)5]

Part C
APPLICABLE REGULATIONS
For
Road Machinery, LLC

Requirements Specifically Identified as Applicable and Subject to the Permit Shield Pursuant to 17.12.310. and Section XX of Part A of this Permit.

PCC 17.16.030	Odor Limiting Standards
PCC 17.16.050.D	Visibility limiting Standard
PCC 17.16.400.A	Covers for VOC
PCC 17.16.400.C	Paint Booth Rules

SIP Rule 316	Particulate Materials
SIP Rule 344	Odor Limiting Standards

Compliance with the terms contained in this permit shall be deemed compliance with the following federally applicable requirements in effect on the date of permit issuance:

40CFR63, Subpart N	National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Tanks

Part D
Air Quality Permit # 2714

Equipment List
Road Machinery, LLC

1. Large Hard Chromium Electroplating Tank T-1
   Capacity - 800 Gallons
   Size: 36" X 36" X 156"

2. Chrome Etch Tank T-2
   Capacity - 800 Gallons
   Size: 36" X 36" X 156"

3. Large Hard Chromium Electroplating Tank T-4
   Capacity - 1278 Gallons
   Size: 84" X 36" X 96"

4. Large Hard Chromium Electroplating Tank T-5
   Capacity - 1278 Gallons
   Size: 84" X 36" X 96"

5. 3,000 Amp Rectifier, R-1
   Make: Rapid, 3000
   Serial Number: 489291

6. 15,000 Amp Rectifier, R-2
   Make: Rapid, 15,000
   Serial Number: 489292

7. Ventilation System, Composite Mesh-Pad Mist Suppressor V-1
   Make: KCH, Spectra U-4-10
   Serial Number: 17809
   Capacity: 9,624 Cubic Feet per Minute

Insignificant Activities

1. Spray Painting: Water Based or Aerosol Can, Paint Booth.

2. Sandblasting Booth Less than 300 lbs of Abrasive Medium per Year.

3. 7 - 30 Gallon Safety Kleen Degreasing Units
   Self Cleaning Model 250
   Serial Numbers:
   25017162, 25005623, 25007616, 25008959, 25017187, 25011750, 57009971002804.