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PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY OPERATING PERMIT #3337



ROYAL PLATING
636 WEST LESTER
TUCSON, AZ 85705

Effective: May 2, 2003 Expires: May 1, 2008

INTRODUCTION

Royal Plating is a Decorative Chromium Electroplating shop doing custom plating of Copper, Nickel, Chrome and Gold for automotive and other customers.

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

Royal Plating is a True Minor Source for all Regulated Air Pollutants and 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.

Royal Plating
636 West Lester
Tucson AZ, 85705
Permit #3337

Summary of Permit Requirements

Royal Plating is a Decorative Electroplating shop doing custom plating of Copper, Nickel, Gold and Chromium for Decorative Finishes.

Emission Unit	Pollutants Emitted	Control Measure	Emission Limits/Standards	Monitoring/Recordkeeping	Reporting	Testing Frequency/Methods
1. Decorative Chromium Electroplating Tank 9' Long X 4' Wide 2. Rectifier - 2000 Amp Dyna Power Corp Rectifier, Model Number SA4-120202-JHVS; Serial Number 19329	PM ₁₀ Cr ⁺⁶ (HAP)	Wetting agent Work Practices to Minimize Emissions	Maintain electrolyte Surface Tension below 45 dynes per cm during operation of tank	Measure on schedule basis, each 4, 8, then 40 hours. Record date and time, readings, and any additions, and exceedances. Maintain measuring equipment in accordance with Manufacturer's Recommendation. Maintain records for five years. Develop an O & M Plan and Maintain it on site.	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.	1. Every 4 hours for first 40 hours. 2. After 40 hours of compliance, every 8 hours. 3. After a further 40 hours of compliance, every 40 hours. 4. After the bath is drained and refilled, or after an exceedance, the schedule will resume at Step 1 above. Test Method 306B from 40CFR63 - App. A

Permit Issued To: Royal Plating.

Permit #3337

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(19).
 - 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 #3337

Royal Plating

Note: This Part B contains equipment specific requirements for the operations of the Royal Plating Shop located at 636 West Lester in Tucson, Arizona. Royal Plating does Decorative Chromium Electroplating at its shop, as well as electroplating of other metals.

- I. **APPLICABILITY: Decorative Chromium Electroplater Utilizing a Chromic Acid Bath and a Wetting Agent Type of Surface Tension Control.**
- A. Affected Emission Source or Process
- Decorative Chromium Electroplating Tank 1 - 9' Long X 4' Wide
 - Rectification - 2000 Ampere Dyna Power Rectifier, Model Number SA4-120202-THVS, Serial Number 19329
- B. Affected Emission Source Classification: Class II; True Minor Source; Stationary Source; Federal HAP Area Source.
- II. **STANDARDS**
- A. Surface Tension Standard
- The equipment listed in Part B.I.A above shall not be used for Hard Chromium Electroplating as defined in 40CFR63.341(a) **[Federally Enforceable]**
[PCC17.12.220.B.]
 - The Permittee shall use a Wetting Agent to control the Surface Tension of the Chromic Acid Bath.
[Material Permit Condition] [Federally Enforceable] [PCC17.12.220.]
 - The Permittee shall not allow the Surface Tension of the electroplating bath contained within the affected source to exceed 45 dynes per centimeter.
[Material Permit Condition] [Federally Enforceable] 40CFR63.342(d)2]
- B. Work Practice Standards **[Federally Enforceable] [40CFR63.342(f)]**
- At all times, including periods of startup, shutdown and malfunction, the Permittee shall operate and maintain the Decorative Chromium Electroplating Tank and the 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.
[40CFR63.342(f)1(i)]

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the Operation and Maintenance Plan. [40CFR63.342(f)1(ii)]
3. 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. [40CFR63.342(f)1(iii)]
4. 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. [40CFR63.342(f)2(i)]
5. 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: [40CFR63.342(f)2(ii)]

- a. Does not address a malfunction that has occurred;
- b. Fails to provide for the operation of the electroplating tank, 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.

C. The Operation and Maintenance Plan **[Federally Enforceable]** [40CFR63.342(f)3]

1. The Permittee shall prepare an Operation and Maintenance Plan which is incorporated by reference into this permit.
2. The Operation and Maintenance Plan shall include the following elements:
 - a. The Plan shall specify the operation and maintenance criteria for the Decorative Chromium Electroplating operation, 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 Plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and
 - c. The 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;

3. 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.

[40CFR63.342(f)3(ii)]

III. MONITORING

[40CFR63.343(b)2.i, ii, iii] [40CFR63.343(c)5]

- A. The Surface Tension of the Decorative Chromium Electroplating Bath shall be monitored by the Test Method described in Part B Section VI.A of this Permit, on a schedule as follows.

1. The Surface Tension of the Decorative Chromium Electroplating Bath shall initially be measured every four hours of tank operation for the first 40 hours of tank operation.

[Federally Enforceable] [40CFR63.343(c)5(ii)A]

2. If the Surface Tension does not exceed the figure in Part B, II.A.3 of this Permit during this 40 hour period, the monitoring can then be done every 8 hours of tank operation for another 40 hours.

[Federally Enforceable] [40CFR63.343(c)5(ii)B]

3. If there are no exceedances of the figure in Part B, II.A.3 of this Permit during this 40 hour period, the monitoring can then be done every 40 hours of tank operation on an ongoing basis, until an exceedance occurs.

[Federally Enforceable] [40CFR63.343(c)5(ii)B]

4. In the event of an exceedance of the figure in Part B, II.A.3 of this Permit, the sequence of monitoring frequency shall begin again from Part B, III.A.1.

[Federally Enforceable] [40CFR63.343(c)5(ii)C]

5. Once a bath solution has been drained from the tank, and a new solution added, the original monitoring schedule of testing once every four hours must be resumed, with a decrease in monitoring frequency allowed following the procedures identified in Part B, III.A.1,2,3 and 4 above.

[Federally Enforceable] [40CFR63.343(c)5(iii)]

IV. RECORDKEEPING

[40CFR63.346]

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

- B. 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)]

- C. A log book shall be used to keep records of all surface tension measurements and the date, time and amount of Wetting Agent additions. A copy of the instructions for the apparatus used for measurement of the surface tension of the Decorative Chromium Electroplating Bath must be kept with the log book. If a tensiometer is used to measure the Surface Tension, a copy of the ASTM Method D 1331-89, Standard Methods for Surface and Interfacial Tension of Solutions of Surface Active Agents must also be kept with the log book. The log book must be readily available for inspection by regulatory personnel.

[**Federally Enforceable**] [40CFR63.App. A, 306B.12.1.2; 12.2.1; 2]

- D. Records kept in the log book shall include: [PCC17.12.180.A.4.a.]

1. Date, Time and Results of Surface Tension Tests.

[**Federally Enforceable**] [40CFR63 App. A 306B 12.1.2]

2. Date, Time and Results of calibration tests of the measurement device where calibration is required by the instrument manufacturer.

[**Federally Enforceable**] [40CFR63.346(b)2]

3. Date, Time and Amount of Surface Tension controlling additions.

[**Federally Enforceable**] [40CFR63.346(b)13]

4. Date and Time of every complete change out of Decorative Chromium Electrolyte Solution.

[**Federally Enforceable**] [40CFR63.346(b)5]

- E. 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 App. A 306B.12.1.3]

- F. 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., superceded) 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)]

- G. 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.]

- H. Monitoring and Recordkeeping Requirements are subject to the written reporting requirements of Part B, Section V of this Permit.

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 40CFR63 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. A statement of whether the affected source is located at a major source or an area source as defined in 40CFR63.2.
2. The owner or operator of a new or reconstructed affected source that has an initial startup after January 25, 1995 shall submit an initial notification (in addition to the notification of construction or reconstruction required by 40CFR63.345(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.A.3.]

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 [PCC 17.16.340.J.]

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. An Excess Emission occurrence shall include, but not be limited to, any time period in which the Surface Tension measured exceeds the limit described in Part B, Section I.A of this Permit.

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 at 520 740 3340 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.

VI. TESTING REQUIREMENTS

[40CFR63.343(e)5(ii)A] [PCC 17.12.050.]

A. Measurements of Surface Tension:

1. EPA Test Method 306-B, "Surface Tension Measurement and Recordkeeping for Tanks Used at Decorative Chromium Electroplating and Anodizing Facilities" from 40CFR Part 63, Appendix A shall be used to measure Surface Tension of the Decorative Chromium Electroplating bath.

[Federally Enforceable] [40CFR63 App. A 306B] [40CFR63.343(c)5(i)]



Part C

Air Quality Permit #3337

APPLICABLE REGULATIONS

For
Royal Plating

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.

SIP Rule 316

Particulate Materials

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

