

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-586-1044 – Fax 360-491-6308

NOC FORM 27 CHROME ELECTROPLATING/ANODIZING

GENERAL INFORMATION

1. Company Name:
2. Application Contact/Phone #: Email:
3. Plant Contact/Phone #:
4. This form is being submitted for the following purposes:
 - Approval to construct a new chromium electroplating and/or anodizing tank.
 - Approval to reconstruct an existing chromium electroplating and/or anodizing tank.
 - Approval modify tanks and/or air pollution control devices.
 - Registration of an existing facility.
5. Expected start date of construction, reconstruction, or modification:
6. Expected completion date of construction, reconstruction, or modification:
7. Expected date of plant start-up:

PLANT DATA

1. Description of existing and proposed tanks.

Tank ID #	Existing or Planned?	Type of Tank ^a	Total Installed rectifier capacity (amperes)	Description of parts plated	Type of Control Device or Technique ^b	Emission Rate ^c

Notes:

- Please use the following codes to indicate the type of tank: HC = hard chromium plating tank, DC = decorative chromium plating tank using a chromic acid bath, DCT = decorative chromium plating tank using a trivalent chromium bath, or CA= chromium anodizing tank.
- Attach design information from vendor including a written description of the control device or technique, design drawings and design capacity.
- Attach engineering calculations and vendor written emission rate guarantee to support emission rate provided. Emission rates should be expressed in units consistent with the emission limits contained in 40 CFR Part 63, Subpart N (see page 2, item #6).

2. Ventilation and Stack System Data.

<u>Stack ID#</u>	<u>Tanks Served</u> (Tank ID#s)	<u>Flowrate</u> (acfm)	<u>Stack Height</u> (from ground, ft)	<u>Stack Diameter</u> (inches)

ORCAA FORM 27, CHROME ELECTROPLATING/ANODIZING (continued)

3. After the construction, reconstruction, or modification is complete, will the plant be a "major source" or "area source"? (check box that will apply)

- Major Source:** A major source is a facility that emits greater than 10 tons per year of any hazardous air pollutant (HAP) or 25 tons per year of multiple HAPs.
- Area Source:** All sources that are not Major Sources are considered as area sources.

4. Complete the following if hard chromium electroplating tanks are being constructed, re-constructed, or modified. Check all that apply.

- The maximum cumulative potential rectifier capacity of the hard chromium electroplating tanks is greater than or equal to 60 million amp-hr/yr.
- The maximum cumulative potential rectifier capacity of the hard chromium electroplating tanks is less than 60 million amp-hr/yr.
- Records show that the facility's previous 12-month cumulative current usage for the hard chromium electroplating tanks was less than 60 million amp-hr.
- The facility wishes to accept a Federally-enforceable limit of less than 60 million amp-hr/yr on the maximum cumulative potential rectifier capacity of the hard chromium electroplating tanks.

NOTE: Maximum cumulative potential rectifier capacity should be determined by taking the sum of the total installed rectifier capacity (amperes) multiplied by 8,400 hours/yr and by 0.7 for each tank.

5. Attach a brief description of the proposed emission control technique(s), including design drawings, and design capacity.

6. Emission standards.

TYPE OF TANK	SPECIFICATIONS	EMISSION LIMITS AND STANDARDS	TYPICAL CONTROL TECHNIQUE
Hard Chrome Plating Large Tank (existing or new)	Greater than or equal to 60 million amp-hr/yr	0.015 mg/dscm (6.6×10^{-6} gr/dscf)	Composite Mesh Pad (CMP)
Hard Chrome Plating Small Tank (existing only: installed before 12/16/93)	Less than 60 million amp-hr/yr	0.03 mg/dscm (1.3×10^{-5} gr/dscf)	Packed Bed Scrubber (PBS)
Hard Chrome Plating Small Tank (new only)	Less than 60 million amp-hr/yr	0.015 mg/dscm (6.6×10^{-6} gr/dscf)	Composite Mesh Pad (CMP)
Decorative Chrome Plating or Anodizing Using Chromic Acid Bath (existing or new)	If using a fume suppressant (FS).	0.01 mg/dscm (4.4×10^{-6} gr/dscf)	Fume Suppressant (FS)
	If using FS that contains a wetting agent.	45 dynes/cm (3.1×10^{-3} lbf/ft)	FS that contains a wetting agent.
Decorative Chrome Plating Using Trivalent Chromium Bath (existing or new)	Trivalent chromium bath.	Subject to only record keeping and reporting requirements.	Use of trivalent chromium bath system.