

Second Notice of Public Availability of Additional Information

Proposed Amendments to the Airborne Toxic Control Measure for Chromium Electroplating and Chromic Acid Anodizing Operations

Public Hearing Date: January 26-27, 2023
Public Availability Date: April 26, 2023
Deadline for Public Comment: May 11, 2023

At its January 27, 2023, public hearing, the California Air Resources Board (CARB or Board) considered staff's proposed amendments to sections 93102, 93102.1, 93102.2, 93102.3, 93102.4, 93102.5, 93102.6, 93102.7, 93102.8, 93102.9, 93102.10, 93102.11, 93102.12, 93102.13, 93102.14, 93102.15, and 93102.16, title 17, California Code of Regulations. These amendments are needed to further reduce the exposures and health impacts from hexavalent chromium emitted from chrome plating facilities (which include decorative and hard chrome plating and chromic acid anodizing facilities) in communities near these sources.

At the hearing, the Board directed the Executive Officer to determine if additional conforming modifications to the regulation were appropriate and to make any proposed modified regulatory language available for public comment, with any additional supporting documents and information, for a period of at least 15 days in accordance with Government Code section 11346.8. These changes were documented in a 15-day notice published on March 27, 2023. The comment period for that 15-day notice closed on April 11, 2023.

The Board also directed the Executive Officer to consider written comments submitted during the public review period and make any further modifications that are appropriate available for public comment for at least 15 days. The Executive Officer was directed to evaluate all comments received during the public comment periods, including comments raising significant environmental issues, and prepare written responses to such comments as required by CARB's certified regulations at California Code of Regulations, title 17, sections 60000-60007 and Government Code section 11346.9, subdivision (a). Per CARB's California Environmental Quality Act (CEQA) process, staff will present to the Board, at a subsequently scheduled public hearing, staff's written responses to environmental comments and the final environmental analysis for consideration for approval, along with the finalized amendments for consideration for adoption.

As part of the 15-day notice published on March 27, 2023, staff published Attachment 2: Proposed 15-Day Changes and Corrections to the Initial Statement of Reasons for the Proposed Amendments to the Airborne Toxics Control Measure for Chromium Electroplating and Chromic Acid Anodizing Operation (Attachment 2).

On March 28, 2023, staff received a comment regarding an error in the values presented in Table 1 of Attachment 2. The comment identified an incorrect value used for the hard chrome plating average source tested emission rate. Due to a decimal point placement error, staff used 5.88E-05 milligrams per ampere hour (mg/amp-hr) instead of 5.88E-04 mg/amp-hr in Section II. A. Table 1 of Attachment 2. This error occurred in the column titled "Average Source Tested Emission Rate (mg/amp-hr)(Reported)" and led to calculation errors reflected in the values in some of the rows of the columns titled "Permitted Emissions Based on Source Tested Emission Factors (lb/year) (Calculated)," and "2019 Emissions Based on Source Tested Emission Factors (lb/year) (Calculated)." This error impacted the source tested emission values in the table corresponding to all but one hard chrome plating facility. The values in the table corresponding to decorative plating facilities and chromic acid anodizing facilities were unaffected. Additionally, corresponding corrections needed to be made in Section II. B.1 and II. B.2 to reflect changes to Table 1 of Section II. A. These include changes to Table III.1 on page 23, Table VI.1 on page 24, and the narrative that correspond to total values presented in Table 1 of Section II A.

In response, staff is correcting the errors described above and issuing this notice. This notice describes modifications made to Attachment 2. No modifications are being made to the proposed regulatory text; the only changes being made are modifications to some of the values posted in Attachment 2 of the previous 15-day dated March 27, 2023. All regulatory documents (including this notice) for this rulemaking are available online at the following [CARB website: https://ww2.arb.ca.gov/rulemaking/2023/chromeatcm2023](https://ww2.arb.ca.gov/rulemaking/2023/chromeatcm2023)

In the Final Statement of Reasons, staff will respond to all comments received on the record during the comment periods. The Administrative Procedure Act requires that staff respond to comments received regarding all noticed changes. Therefore, staff will only address comments received during this 15-day comment period that are responsive to the changes made in this notice. Comments regarding values that were not updated as part of this notice will be considered out of scope of the notice.

Summary of Proposed Modifications

1. Staff is replacing Table 1 on page 3 of Attachment 2 to the 15-day notice dated March 27, 2023, to reflect the corrected values below. The changes made only affect facilities labeled as "Hard" in column two "Facility Type" that use add-on controls that are not tank covers, because the facility with tank covers has a different source tested emission rate. Staff is correcting the value in column eight "Average Source Tested Emission Rate (mg/amp-hr)(Reported) to 5.88E-04 mg/amp-hr from 5.88E-05 mg/amp-hr. Because of this error, staff are also correcting the calculated values in the applicable rows corresponding to hard chrome plating facilities in column nine "Permitted Emissions Based on Source Tested Emission Factors (lb/year) (Calculated)," and column ten "2019 Emissions Based on Source Tested Emission Factors (lb/year) (Calculated)" because the calculations of these values relied on the incorrect value from column eight. The total values for column nine and ten have been updated to reflect the corrected calculations. The updated values in the table are underlined to demonstrate which values are being changed.

Table 1. Summary of Emissions Data for Chrome Plating Facilities in California

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Anodizing	365,000	14,425	0.0015	0.00121	0.00005	2.90E-08	2.33E-08	9.22E-10
South Coast AQMD	Anodizing	5,000,000	104,168	0.0015	0.01653	0.00034	2.90E-08	3.20E-07	6.66E-09
South Coast AQMD	Anodizing	1,150,000	655,289	0.0015	0.00380	0.00217	2.90E-08	7.35E-08	4.19E-08
South Coast AQMD	Anodizing	50,000	1,744	0.0015	0.00017	0.00001	2.90E-08	3.20E-09	1.12E-10
South Coast AQMD	Anodizing	13,440,000	216,966	0.0015	0.04444	0.00072	2.90E-08	8.59E-07	1.39E-08
South Coast AQMD	Anodizing	49,995	43,683	0.01	0.00110	0.00096	2.90E-08	3.20E-09	2.79E-09

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Anodizing	1,150,000	163,507	0.0015	0.00380	0.00054	2.90E-08	7.35E-08	1.05E-08
South Coast AQMD	Anodizing	200,000	74,681	0.0015	0.00066	0.00025	2.90E-08	1.28E-08	4.77E-09
South Coast AQMD	Anodizing	1,150,000	50,460	0.0015	0.00380	0.00017	2.90E-08	7.35E-08	3.23E-09
South Coast AQMD	Anodizing	50,000	2,289	0.01	0.00110	0.00005	2.90E-08	3.20E-09	1.46E-10
South Coast AQMD	Anodizing	500,000	211,911	0.0015	0.00165	0.00070	2.90E-08	3.20E-08	1.35E-08
South Coast AQMD	Anodizing	1,600,000	667,959	0.0015	0.00529	0.00221	2.90E-08	1.02E-07	4.27E-08
South Coast AQMD	Anodizing	9,000,000	484,349	0.0015	0.02976	0.00160	2.90E-08	5.75E-07	3.10E-08

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Anodizing	5,080	5,080	0.0015	0.00002	0.00002	2.90E-08	3.25E-10	3.25E-10
South Coast AQMD	Anodizing	757,375	36,396	0.0015	0.00250	0.00012	2.90E-08	4.84E-08	2.33E-09
South Coast AQMD	Anodizing	1,000,000	701,946	0.0015	0.00331	0.00232	2.90E-08	6.39E-08	4.49E-08
South Coast AQMD	Anodizing	1,800,000	117,689	0.0015	0.00595	0.00039	2.90E-08	1.15E-07	7.52E-09
South Coast AQMD	Anodizing	22,615	22,615	0.0015	0.00007	0.00007	2.90E-08	1.45E-09	1.45E-09
South Coast AQMD	Anodizing	ND ⁶	ND	0.0015	ND	ND	2.90E-08	ND	ND
South Coast AQMD	Anodizing	6,000,000	388,833	0.0015	0.01984	0.00129	2.90E-08	3.84E-07	2.49E-08

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Anodizing	1,150,000	29,378	0.0015	0.00380	0.00010	2.90E-08	7.35E-08	1.88E-09
South Coast AQMD	Anodizing	500,000	288,742	0.0015	0.00165	0.00095	2.90E-08	3.20E-08	1.85E-08
South Coast AQMD	Anodizing	50,000	23,658	0.01	0.00110	0.00052	2.90E-08	3.20E-09	1.51E-09
South Coast AQMD	Anodizing	ND	ND	0.0015	ND	ND	2.90E-08	ND	ND
South Coast AQMD	Anodizing	13,000,000	20,999	0.0015	0.04299	0.00007	2.90E-08	8.31E-07	1.34E-09
Ventura County APCD	Anodizing	89,900	46,678	0.0015	0.00030	0.00015	2.90E-08	5.75E-09	2.98E-09
Bay Area AQMD	Decorative	50,000	15,391	0.01	0.00110	0.00034	1.00E-02	1.10E-03	3.39E-04

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
Bay Area AQMD	Decorative	45,500	8,423	0.01	0.00100	0.00019	1.00E-02	1.00E-03	1.86E-04
Bay Area AQMD	Decorative	20,000	16	0.01	0.00044	0.00000	1.00E-02	4.41E-04	3.53E-07
Bay Area AQMD	Decorative	50,000	4,185	0.01	0.00110	0.00009	1.00E-02	1.10E-03	9.23E-05
Feather River AQMD	Decorative	20,000	20,000	0.01	0.00044	0.00044	1.00E-02	4.41E-04	4.41E-04
Sacramento Metro AQMD	Decorative	200,000	29,378	0.0015	0.00066	0.00010	4.78E-04	2.11E-04	3.10E-05
San Diego APCD	Decorative	50,000	9,785	0.01	0.00110	0.00022	1.00E-02	1.10E-03	2.16E-04
San Diego APCD	Decorative	50,000	19,080	0.01	0.00110	0.00042	1.00E-02	1.10E-03	4.21E-04
San Diego APCD	Decorative	50,000	27,524	0.01	0.00110	0.00061	1.00E-02	1.10E-03	6.07E-04

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
San Joaquin Valley APCD	Decorative	10,000,000	110,821	0.01	0.22046	0.00244	1.00E-02	2.20E-01	2.44E-03
San Joaquin Valley APCD	Decorative	500,000	16,687	0.0015	0.00165	0.00006	4.78E-04	5.27E-04	1.76E-05
San Joaquin Valley APCD	Decorative	1,000,000	206,929	0.0015	0.00331	0.00068	4.78E-04	1.05E-03	2.18E-04
San Joaquin Valley APCD	Decorative	20,000	11,946	0.01	0.00044	0.00026	1.00E-02	4.41E-04	2.63E-04
San Joaquin Valley APCD	Decorative	20,000	12,619	0.01	0.00044	0.00028	1.00E-02	4.41E-04	2.78E-04

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San Joaquin Valley APCD	Decorative	16,000	6,340	0.01	0.00035	0.00014	1.00E-02	3.53E-04	1.40E-04
South Coast AQMD	Decorative	89,856,000	1,485,252	0.0015	0.29714	0.00491	4.78E-04	9.47E-02	1.56E-03
South Coast AQMD	Decorative	500,000	500,000	0.01	0.01102	0.01102	1.00E-02	1.10E-02	1.10E-02
South Coast AQMD	Decorative	748,800	748,800	0.0015	0.00248	0.00248	4.78E-04	7.89E-04	7.89E-04
South Coast AQMD	Decorative	500,000	45,806	0.01	0.01102	0.00101	1.00E-02	1.10E-02	1.01E-03
South Coast AQMD	Decorative	20,000	23,320	0.01	0.00044	0.00051	1.00E-02	4.41E-04	5.14E-04

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Decorative	80,000	404,678	0.0015	0.00026	0.00134	4.78E-04	8.43E-05	4.26E-04
South Coast AQMD	Decorative	1,600,000	250,952	0.0015	0.00529	0.00083	4.78E-04	1.69E-03	2.64E-04
South Coast AQMD	Decorative	50,000	8	0.01	0.00110	1.76E-07	1.00E-02	1.10E-03	1.76E-07
South Coast AQMD	Decorative	1,250,000	41,237	0.0015	0.00413	0.00014	4.78E-04	1.32E-03	4.34E-05
South Coast AQMD	Decorative	15,000,000	982,191	0.0015	0.04960	0.00325	4.78E-04	1.58E-02	1.03E-03
South Coast AQMD	Decorative	1,150,000	639,660	0.01	0.02535	0.01410	1.00E-02	2.54E-02	1.41E-02
South Coast AQMD	Decorative	6,266,213	122,835	0.0015	0.02072	0.00041	4.78E-04	6.60E-03	1.29E-04

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South Coast AQMD	Decorative	1,000,000	1,000,000	0.0015	0.00331	0.00331	4.78E-04	1.05E-03	1.05E-03
South Coast AQMD	Decorative	5,000,000	98,939	0.0015	0.01653	0.00033	4.78E-04	5.27E-03	1.04E-04
South Coast AQMD	Decorative	15,000,000	26,347	0.0015	0.04960	0.00009	4.78E-04	1.58E-02	2.78E-05
South Coast AQMD	Decorative	200,000	20,671	0.01	0.00441	0.00046	1.00E-02	4.41E-03	4.56E-04
South Coast AQMD	Decorative	2,149,056	433,211	0.0015	0.00711	0.00143	4.78E-04	2.26E-03	4.56E-04
South Coast AQMD	Decorative	17,628	17,628	0.01	0.00039	0.00039	1.00E-02	3.89E-04	3.89E-04
South Coast AQMD	Decorative	15,724,000	1,304,607	0.0015	0.05200	0.00431	4.78E-04	1.66E-02	1.37E-03

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South Coast AQMD	Decorative	41,328,000	41,328,000	0.0015	0.13667	0.13667	4.78E-04	4.35E-02	4.35E-02
South Coast AQMD	Decorative	716,040	108,398	0.0015	0.00237	0.00036	4.78E-04	7.54E-04	1.14E-04
South Coast AQMD	Decorative	26,000,000	223,010	0.0015	0.08598	0.00074	4.78E-04	2.74E-02	2.35E-04
South Coast AQMD	Decorative	20,000	15,196	0.01	0.00044	0.00034	1.00E-02	4.41E-04	3.35E-04
South Coast AQMD	Decorative	50,000	3,700	0.01	0.00110	0.00008	1.00E-02	1.10E-03	8.16E-05
South Coast AQMD	Decorative	20,000	20,000	0.0015	0.00007	0.00007	4.78E-04	2.11E-05	2.11E-05
South Coast AQMD	Decorative	20,000	3,512	0.0015	0.00007	0.00001	4.78E-04	2.11E-05	3.70E-06

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Decorative	12,480,000	558,936	0.0015	0.04127	0.00185	4.78E-04	1.31E-02	5.89E-04
South Coast AQMD	Decorative	12,480,000	937,659	0.0015	0.04127	0.00310	4.78E-04	1.31E-02	9.88E-04
South Coast AQMD	Decorative	50,000	27,248	0.01	0.00110	0.00060	1.00E-02	1.10E-03	6.01E-04
South Coast AQMD	Decorative	53,800	53,800	0.01	0.00119	0.00119	1.00E-02	1.19E-03	1.19E-03
South Coast AQMD	Decorative	365,000	5,918	0.0015	0.00121	0.00002	4.78E-04	3.85E-04	6.23E-06
South Coast AQMD	Decorative	500,000	19,230	0.0015	0.00165	0.00006	4.78E-04	5.27E-04	2.03E-05
South Coast AQMD	Decorative	60,000,000	3,729,155	0.0015	0.19841	0.01233	4.78E-04	6.32E-02	3.93E-03

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South Coast AQMD	Decorative	20,000	2,313	0.0015	0.00007	0.00001	4.78E-04	2.11E-05	2.44E-06
South Coast AQMD	Decorative	20,000	3,011	0.01	0.00044	0.00007	1.00E-02	4.41E-04	6.64E-05
South Coast AQMD	Decorative	50,000	20,539	0.01	0.00110	0.00045	1.00E-02	1.10E-03	4.53E-04
Bay Area AQMD	Hard	44,000,000	12,710,000	0.0015	0.14550	0.04203	<u>5.88E-04</u>	<u>5.71E-02</u>	<u>1.65E-02</u>
Bay Area AQMD	Hard	38,600,000	10,380,000	0.0015	0.12765	0.03433	<u>5.88E-04</u>	<u>5.01E-02</u>	<u>1.35E-02</u>
Bay Area AQMD	Hard	35,000,000	5,560,000	0.0015	0.11574	0.01839	<u>5.88E-04</u>	<u>4.54E-02</u>	<u>7.21E-03</u>
Bay Area AQMD	Hard	3,000,000	203,876	0.0015	0.00992	0.00067	<u>5.88E-04</u>	<u>3.89E-03</u>	<u>2.64E-04</u>
Bay Area AQMD	Hard	60,000,000	8,838,733	0.0015	0.19841	0.02923	<u>5.88E-04</u>	<u>7.78E-02</u>	<u>1.15E-02</u>

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Bay Area AQMD	Hard	114,500,000	5,450,000	0.0015	0.37864	0.01802	<u>5.88E-04</u>	<u>1.48E-01</u>	<u>7.07E-03</u>
Sacramento Metro AQMD	Hard	131,660,000	3,774,586	0.0015	0.43539	0.01248	<u>5.88E-04</u>	<u>1.71E-01</u>	<u>4.89E-03</u>
San Diego APCD	Hard	780,258	780,258	0.0015	0.00258	0.00258	<u>5.88E-04</u>	<u>1.01E-03</u>	<u>1.01E-03</u>
San Joaquin Valley APCD	Hard	12,000,000	4,766,382	0.0015	0.03968	0.01576	4.10E-06	1.08E-04	4.31E-05
San Joaquin Valley APCD	Hard	5,383,523	5,383,523	0.0015	0.01780	0.01780	<u>5.88E-04</u>	<u>6.98E-03</u>	<u>6.98E-03</u>
San Joaquin Valley APCD	Hard	9,984,000	2,097,849	0.0015	0.03302	0.00694	<u>5.88E-04</u>	<u>1.29E-02</u>	<u>2.72E-03</u>

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Hard	15,000,000	3,192,820	0.0015	0.04960	0.01056	<u>5.88E-04</u>	<u>1.95E-02</u>	<u>4.14E-03</u>
South Coast AQMD	Hard	34,680,000	10,416,765	0.0015	0.11468	0.03445	<u>5.88E-04</u>	<u>4.50E-02</u>	<u>1.35E-02</u>
South Coast AQMD	Hard	500,000	121,852	0.0015	0.00165	0.00040	<u>5.88E-04</u>	<u>6.48E-04</u>	<u>1.58E-04</u>
South Coast AQMD	Hard	15,000,000	4,071,964	0.0015	0.04960	0.01347	<u>5.88E-04</u>	<u>1.95E-02</u>	<u>5.28E-03</u>
South Coast AQMD	Hard	ND	61,239,208	0.0015	ND	0.20251	<u>5.88E-04</u>	<u>ND</u>	<u>7.94E-02</u>
South Coast AQMD	Hard	254,000,000	57,942,267	0.0015	0.83995	0.19161	<u>5.88E-04</u>	<u>3.29E-01</u>	<u>7.51E-02</u>
South Coast AQMD	Hard	3,233,618	1,418,916	0.0015	0.01069	0.00469	<u>5.88E-04</u>	<u>4.19E-03</u>	<u>1.84E-03</u>

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Hard	148,920,000	31,114,514	0.0015	0.49246	0.10289	<u>5.88E-04</u>	<u>1.93E-01</u>	<u>4.03E-02</u>
South Coast AQMD	Hard	15,000,000	7,404,590	0.0015	0.04960	0.02449	<u>5.88E-04</u>	<u>1.95E-02</u>	<u>9.60E-03</u>
South Coast AQMD	Hard	ND	78,427,925	0.0015	ND	0.25936	<u>5.88E-04</u>	ND	<u>1.02E-01</u>
South Coast AQMD	Hard	242,850	408,645	0.0015	0.00080	0.00135	<u>5.88E-04</u>	<u>3.15E-04</u>	<u>5.30E-04</u>
South Coast AQMD	Hard	104,208,000	6,298,513	0.0015	0.34461	0.02083	<u>5.88E-04</u>	<u>1.35E-01</u>	<u>8.17E-03</u>
South Coast AQMD	Hard	60,000,000	47,443,154	0.0015	0.19841	0.15689	<u>5.88E-04</u>	<u>7.78E-02</u>	<u>6.15E-02</u>
South Coast AQMD	Hard	131,040,000	10,195,736	0.0015	0.43334	0.03372	<u>5.88E-04</u>	<u>1.70E-01</u>	<u>1.32E-02</u>

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Hard	30,000,000	30,000,000	0.0015	0.09921	0.09921	<u>5.88E-04</u>	<u>3.89E-02</u>	<u>3.89E-02</u>
South Coast AQMD	Hard	29,883,290	29,883,290	0.0015	0.09882	0.09882	<u>5.88E-04</u>	<u>3.88E-02</u>	<u>3.88E-02</u>
South Coast AQMD	Hard	125,000,000	14,752,086	0.0015	0.41336	0.04878	<u>5.88E-04</u>	<u>1.62E-01</u>	<u>1.91E-02</u>
South Coast AQMD	Hard	43,171,712	1,021,546	0.0015	0.14276	0.00338	<u>5.88E-04</u>	<u>5.60E-02</u>	<u>1.32E-03</u>
South Coast AQMD	Hard	77,859,792	9,523,331	0.0015	0.25747	0.03149	<u>5.88E-04</u>	<u>1.01E-01</u>	<u>1.23E-02</u>
South Coast AQMD	Hard	18,695,697	18,695,427	0.0015	0.06182	0.06182	<u>5.88E-04</u>	<u>2.42E-02</u>	<u>2.42E-02</u>
South Coast AQMD	Hard	567,500,000	14,882,488	0.0015	1.87667	0.04922	<u>5.88E-04</u>	<u>7.36E-01</u>	<u>1.93E-02</u>

District	Facility Type	Permitted Annual Throughput (amp-hrs) (Reported)	2019 Facility Reported Throughput (amp-hrs) (Reported)	2007 ATCM Emission Factor	Potential to Emit (lb) ¹	2019 Emissions based on 2007 ATCM Emission Factors (lb/year) (Calculated) ²	Average Source Tested Emission Rate (mg/amp-hr) (Reported) ³	Permitted Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁴	2019 Emissions based on Source Tested Emission Factors (lb/year) (Calculated) ⁵
South Coast AQMD	Hard	2,000,000	13,331,915	0.0015	0.00661	0.04409	<u>5.88E-04</u>	<u>2.59E-03</u>	<u>1.73E-02</u>
South Coast AQMD	Hard	363,100,000	107,434,648	0.0015	1.20074	0.35528	<u>5.88E-04</u>	<u>4.71E-01</u>	<u>1.39E-01</u>
South Coast AQMD	Hard	115,400,000	116,476,081	0.0015	0.38162	0.38518	<u>5.88E-04</u>	<u>1.50E-01</u>	<u>1.51E-01</u>
South Coast AQMD	Hard	3,500,000	10,876,146	0.0015	0.01157	0.03597	<u>5.88E-04</u>	<u>4.54E-03</u>	<u>1.41E-02</u>
Total		2,993,298,742	806,597,370		10.15	2.7		<u>3.99</u>	<u>1.05</u>

¹ When the numbers for Permitted Annual Throughput (amp-hrs) were not available from the District, staff used the 2019 Facility Reported Throughput (amp-hrs) to calculate the Potential to Emit (lbs).

² 2019 Emission based on the 2007 ATCM limit = (2019 Total Amp-hr) x (2007 ATCM Emission Rate Limit (mg/amp-hr)) x (Conversion Factor (mg to lb)).

³ Source testing numbers in this column are calculated based on the source test results shown in Table 2.

⁴ Permitted Emissions Based on Source Testing = (Permitted Amp-hr) x (Source Testing Emission (mg/amp-hr)) x (Conversion Factor (mg to lb)).

⁵ 2019 Emissions Based on Source Testing = (2019 Total Amp-hr) x (Source Testing Emission (mg/amp-hr)) x (Conversion Factor (mg to lb)).

⁶ ND means no data was provided.

2. Staff are replacing Table III.1 on page 23 of Attachment 2 to the 15-day notice dated March 27, 2023, to correct the values in the “Estimated Actual Emissions of Hexavalent Chromium” column for the “Hard Chrome Plating” row and the total value in the row labeled “All.” These values are being corrected so that they correspond to the corrected values for hard chrome plating facilities and the total presented in Table 1 of Section II A. of Attachment 2. The updated values in the table are underlined to demonstrate the values that are being changed.

Table III.1 Summary of Estimated Emissions based on Air District Permit Limits, the 2007 ATCM Limit and Actual Emissions from Chrome Plating Facilities Before Phase Out Date

Facility Type	Quantity	Estimated Emissions of Hexavalent Chromium – Permitted Limits ¹ (lbs/year)	Estimated Emissions of Hexavalent Chromium – ATCM Limits ² (lbs/year)	Estimated Actual Emissions of Hexavalent Chromium ³ (lbs/year)
Decorative Chrome Plating	51	1.31	0.21	0.093
Functional Chrome Plating	-	-	-	-
A) Hard Chrome Plating	36	8.64	2.47	<u>0.96</u>
B) Chromic Acid Anodizing	26	0.20	0.02	<0.01 ⁴
All	113	10.15	2.7	<u>1.05</u>

¹ Reflects District permitted throughput and the 2007 ATCM emission limits.

² Reflects facility’s 2019 throughput and the 2007 ATCM emission limits.

³ Reflects 2019 throughput and source test emissions.

⁴ 2.9E-07, based on one datapoint.

3. Staff are replacing Table VI.1 on page 24 of Attachment 2 to the 15-day notice dated March 27, 2023, to correct the values in the “Estimated Actual Emissions of Hexavalent Chromium” column for the “Hard Chrome Plating” row and the total value in the row labeled “All.” These values are being corrected so that they correspond to the corrected values for hard chrome plating facilities and the total presented in Table 1 of Section II A. of Attachment 2. The updated values in the table are underlined to demonstrate the values that are being changed.

Table VI.1 Summary of Estimated Hexavalent Chromium (Cr₆) from Chrome Plating Facilities Before Phase Out Date

Facility Type	Number of Facilities	Estimated Emissions of hexavalent chromium – Permitted Limits ¹ (lbs/year)	Estimated Emissions of hexavalent chromium – ATCM Limits ² (lbs/year)	Estimated Emissions of hexavalent chromium ³ – 2019 Data (lbs/year)
Decorative Chrome Plating	51	1.31	0.21	0.093
Functional Chrome Plating	-	-	-	-
A) Hard Chrome Plating	36	8.64	2.47	<u>0.96</u>
B) Chromic Acid Anodizing	26	0.20	0.02	<0.01 ⁴
All	113	10.15	2.7	<u>1.05</u>

¹ Reflects local air District permitted throughput and ATCM emission limit.

² Reflects a facility’s 2019 throughput and ATCM emission limit.

³ Reflects 2019 throughput and source tested emissions.

⁴ Less than 3.6e-06, based on one available datapoint.

- Staff are replacing the value 0.19 pounds per year on page 24 of Attachment 2 to the 15-day notice dated March 27, 2023, with the correct value of 1.05 pounds per year in the following statement to reflect the changes to Table VI.1. The corrected statements now reads:

“Staff is updating the value for the estimated statewide emissions using available source test data and actual reported amp-hour data in 2019 from 2.2 pounds per year to 1.05 pounds per year. This change was made because the value should correspond to the value in Table VI.1.”

- Staff are replacing the value 0.19 pounds per year on page 25 of Attachment 2 to the 15-day notice dated March 27, 2023, with the correct value of 1.05 pounds per year in the following statement to reflect the changes to Table VI.1. The corrected statements now reads:

“Using available source test data and actual reported amp-hour data in 2019, the estimated statewide emissions of hexavalent chromium from chrome plating facilities are 1.05 pounds per year.”

Environmental Analysis

These 15-day changes do not change the implementation of the regulation in a way that affects the impact conclusions identified in the Draft Environmental Analysis (EA) included as Appendix D of the Staff Report. As described above, the second 15-day changes to the Proposed Amendments consist of correcting an error in Table 1 of Attachment 2 to the 15-day notice dated March 27, 2023, and correcting the corresponding values in Table III.1 and Table VI.1 and the narrative of Attachment 2. Since these values were not used in the evaluation of environmental impacts in the Draft EA, staff has determined that these changes would not require new or modified compliance responses and would not result in any new

reasonably foreseeable significant environmental impacts or substantially increase the severity of an already identified environmental impact in the Draft EA. Therefore, no additional environmental analysis or recirculation of the Draft EA is required.

Agency Contacts

Inquiries concerning the substance of the proposed regulation may be directed to Eugene Rubin, Staff Air Pollution Specialist, Toxics Control Section, at (916) 287-8214 or Eugene.Rubin@arb.ca.gov or (designated back-up contact) Greg Harris, Manager, Toxics Control Section, at (279) 208-7540 or Greg.Harris@arb.ca.gov.

Public Comments

Written comments will only be accepted on the modifications identified in this Notice. Comments may be submitted by postal mail or by electronic submittal no later than the due date to the following:

Postal mail: Clerks' Office, California Air Resources Board
1001 I Street, Sacramento, California 95814

Electronic submittal: <https://ww2.arb.ca.gov/applications/public-comments>

Please note that under the California Public Records Act (Gov. Code § 7920.000 et seq.), your written and verbal comments, attachments, and associated contact information (e.g., your address, phone, email, etc.) become part of the public record and can be released to the public upon request.

In order to be considered by the Executive Officer, comments must be directed to CARB in one of the two forms described above and received by CARB no later than the deadline date for public comment listed at the beginning of this notice. Only comments relating to the above-described modifications to the text of the regulations shall be considered by the Executive Officer.

If you need this document in an alternate format or another language, please contact the Clerks' Office at (916) 322-5594 or by facsimile at (916) 322-3928 no later than five (5) business days from the release date of this notice. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

Si necesita este documento en un formato alterno u otro idioma, por favor llame a la oficina del Secretario del Consejo de Recursos Atmosféricos al (916) 322-5594 o envíe un fax al (916) 322-3928 no menos de cinco (5) días laborales a partir de la fecha del lanzamiento de este aviso. Para el Servicio Telefónico de California para Personas con Problemas Auditivos, ó de teléfonos TDD pueden marcar al 711.

California Air Resources Board



Steven S. Cliff, Ph.D.,
Executive Officer

Date: April 26, 2023

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see [CARB's website](http://www.arb.ca.gov) (www.arb.ca.gov).