



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

July 9, 2015

Tesla Motors Inc.  
45500 Fremont Blvd.  
Fremont, CA 94538

Attention: Susan Rigmaiden

**Authority to Construct for Permit Application No. 26812, Plant No. 20459**

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**Required  
Action**

Your Authority to Construct is enclosed. This Authority to Construct is not a Permit to Operate. **To receive your Permit to Operate you must:**

1. Complete the Start-up Notification portion of the Authority to Construct.
2. Send the Start-up Notification to the assigned Permit Engineer via e-mail, fax or mail **at least seven days** prior to operating your equipment.

***Note:** Operation of equipment without sending the Start-up Notification to the District may result in enforcement action.*

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**Authorization  
of Limited Use**

The Authority to Construct authorizes operation during the start-up period from the date of initial operation indicated in your Start-up Notification until the Permit to Operate is issued, up to a maximum of 90 days. All conditions (specific or implied) included in this Authority to Construct will be in effect during the start-up period.

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**Contact  
Information**

If you have any questions, please contact your assigned Permit Engineer:

Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674    **Fax:** (415) 749-5030    **Email:** mpatil@baaqmd.gov

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Condition No. 26027

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PROJECT SOURCES

S-1003 Dry Sanding Booth #2

Emissions directly exhaust to the atmosphere unabated.

S-1008 Spray Booth #4 (Primer)

Emissions abated by E-Scrub (A-10083) and thermal oxidizer (A-1008).

S-1009 Oven #7 (Primer);

Maximum Hourly Firing Rate: 15.09 MMBTU/hour

Emissions abated by thermal oxidizer (A-1008).

S-1013 Oven #8 (Wet Sanding Booth);

Maximum Hourly Firing Rate: 12.8 MMBTU/hour

Emissions directly exhaust to the atmosphere unabated.

S-1014 Spray Booth #5 (Basecoat)

Emissions abated by E-Scrub (A-10146) and thermal oxidizer (A-1008).

S-1015 Oven #10 (Clearcoat);

Maximum Hourly Firing Rate: 16.9 MMBTU/hour

Emissions abated by thermal oxidizer (A-1008).

S-1803 Sealing Station #5

Emissions directly exhaust to the atmosphere unabated.

S-3008 Spray Booth #1 (Primer)

Emissions abated by E-Scrub (A-30083) and thermal oxidizer (A-3008).

S-3009 Oven #2 (Primer);

Maximum Hourly Firing Rate: 15.09 MMBTU/hour

Emissions abated by thermal oxidizer (A-3008).

S-3014 Spray Booth #2 (Basecoat)

Emissions abated by E-Scrub (A-30145) and thermal oxidizer (A-3008).

S-3015 Oven #4 (Basecoat);

Maximum Hourly Firing Rate: 2.95 MMBTU/hour

Emissions abated by thermal oxidizer (A-3008).

S-3016 Spray Booth #3 (Clearcoat)



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Emissions abated by E-Scrub (A-30165) and thermal oxidizer (A-3008).

S-3017 Oven #9 (Basecoat);

Maximum Hourly Firing Rate: 2.95 MMBTU/hour

Emissions abated by thermal oxidizer (A-1008).

S-3018 Dry Sanding Booth #1

Emissions directly exhaust to the atmosphere unabated.

S-3025 Sealing Station #2

Emissions directly exhaust to the atmosphere unabated.

S-32004 Pretreatment Tank System

Emissions directly exhaust to the atmosphere unabated.

S-32005 E-Coat System

Emissions directly exhaust to the atmosphere unabated.

S-32006 Oven #1 (E-Coat);

Maximum Hourly Firing Rate: 15.19 MMBTU/hour

Emissions abated by thermal oxidizer (A-3008).

S-32007 Sealing Station #1

Emissions directly exhaust to the atmosphere unabated.

S-32008 Sealing Station #3

Emissions directly exhaust to the atmosphere unabated.

S-32009 Oven #3 (Wet Sanding Booth);

Maximum Hourly Firing Rate: 12.8 MMBTU/hour

Emissions directly exhaust to the atmosphere unabated.

S-32010 Oven #5 (Clearcoat);

Maximum Hourly Firing Rate: 16.9 MMBTU/hour

Emissions abated by thermal oxidizer (A-3008).

S-32011 Oven #6 (E-Coat);

Maximum Hourly Firing Rate: 15.19 MMBTU/hour

Emissions abated by thermal oxidizer (A-1008).

S-32012 Sealing Station #4

Emissions directly exhaust to the atmosphere unabated.



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**S-32013 Sealing Station #6**

Emissions directly exhaust to the atmosphere unabated.

**S-32014 Spray Booth #6 (Clearcoat)**

Emissions abated by E-Scrub (A-320141) and thermal oxidizer (A-1008).

**A-3008 Regenerative Thermal Oxidizer #1;**

Maximum Hourly Firing Rate: 6.82 MMBTU/hour

**A-1008 Regenerative Thermal Oxidizer #2;**

Maximum Hourly Firing Rate: 6.82 MMBTU/hour

**PROJECT SCOPE**

Tesla will relocate the following existing sources/abatement device from the South Paint Shop to the North Paint Shop: S-1003, S-1008, S-1013, S-1014, S-1009, S-1015, S-1803, and A-1008.

Tesla will continue to operate the following existing sources at the North Paint Shop:

S-3008, S-3014, S-3016, S-3009, S-3015, S-3017, S-3018, and S-3025.

Tesla will construct the following new sources/abatement device at the North Paint Shop:

S-32004, S-32005, S-32014, S-32006, S-32011, S-32010, S-32007, S-32009, S-32012, S-32008, S-32013, and A-3008.

Tesla will relocate the following existing sources from the Plastics Shop to the South Paint Shop:

S-57, S-58, S-59, and S-65.

Tesla will continue to operate the following existing sources at the South Paint Shop: S-1001 and S-1002.

**START-UP OVERLAP**

There will be an overlap of operation between sources at the South Paint Shop and the North Paint Shop, which are the subject of this application. During the start-up operations, vehicles will be processed at new/existing/relocated sources in the South Paint Shop and the North Paint Shop. This will



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be done until all unforeseen problems associated with a project of this size can be resolved. This will allow Tesla to prove the operation and reliability of the new equipment and sources, without any interruptions in production. During this one-year period (as specified in the proposed permit conditions), excluding non-production trials, any vehicle produced in the North Paint Shop will not be produced in the South Paint Shop. Therefore, commercial production in the South Paint Shop will be replaced on a one to one basis, resulting in a net decrease in emissions from S-1003, S-1008, S-1013, S-1014, S-1009, S-1015, S-1803, and A-1008 in the South Paint Shop, until full conversion of vehicle production in the North Paint Shop is accomplished. At that point the existing sources at the South Paint Shop that are being replaced will be permanently shutdown.

#### MONTHLY LIMITS

For the purpose of determining compliance with emissions and/or usage limits, a year is defined as a twelve month consecutive period; a month is defined as a calendar month.

The purpose of defining limits for calendar month and model year, is to allow Tesla operational flexibility in the event of increased production following a plant shutdown. Each model year, Tesla must make a set number of vehicles to meet consumer demands. At certain times during the calendar year, they could stop production for a variety of reasons including but not limited to model changes, holidays, equipment failure, or natural disasters. The consequent loss of production volume, must be overcome by increasing the production rate in subsequent month(s).

Tesla has requested that their monthly limits be flexible to properly accommodate production down-time and increased production. Tesla defines a year as the time it takes them to produce a vehicle model in a consecutive twelve month period. Monthly limits, derived by dividing the annual limits by 8 months instead of 12 months, will result in monthly limits that will accommodate sporadic production increases. For example, if Tesla were to shut down the plant for one month due to a model change, there would be essentially no coating usage or emissions. Tesla could easily exceed an average monthly limit (derived by dividing the annual limits by 12 months) during the month(s) following a shut down when Tesla



- b. Source test to determine the capture and control efficiency of POC and PM10 emissions to the abatement equipment (as applicable) in accordance with the District's Manual of Procedures. Stack sampling ports and platform(s) shall be provided at the booth exhaust stacks, the oven exhaust stacks, the inlet and outlet of Thermal Oxidizers (A-1008 and A-3008).
- c. Source test to determine emissions of NOx and CO associated with combustion of natural gas from the ovens (S-32006, S-3009, S-32010, S-32011, S-1009, S-1015, S-3015, S-3017, S-32009 and S-1013) and thermal oxidizers (A-1008 & A-3008). The owner/operator shall estimate SO2 emissions associated with combustion of natural gas from the above sources using District approved emission calculation methodology by assuming 100% conversion of fuel sulfur to SO2.
- d. The owner/operator shall determine the overall efficiency of the emission control system abating sources that are part of this permit condition as follows:
  - (i) Capture efficiency shall be determined as specified in 40 CFR 51, Appendix M, Test Methods 204 – 204F, as applicable.
  - (ii) Control device destruction efficiency shall be determined as specified in the BAAQMD Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A.
  - (iii) For the determination of control device destruction efficiency, any non-precursor organic compound defined in Regulation 1-234 including acetone shall be included as a volatile organic compound.



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increases production hours to make-up for the lack of production. By allowing Tesla a monthly limit derived by dividing the annual limit by 8 months, the temporary production rate increase would then be less likely to exceed the derived monthly limit(s), without exceeding the annual limits.

Sources S-1003, S-1008, S-1013, S-1014, S-1009, S-1015, S-1803, S-3008, S-3014, S-3016, S-3009, S-3015, S-3017, S-3018, S-3025, S-32004, S-32005, S-32014, S-32006, S-32011, S-32010, S-32007, S-32009, S-32012, S-32008, and S-32013 shall be subject to the following permit conditions:

**A.1 Conditions Common to All Sources Listed Above of the North Paint Shop:**

1. Tesla shall conduct District approved source testing:
  - (i) Initially, within 60 days of the date that passenger vehicle production reaches 25 units per hour, but no later than 180 days after start-up; and
  - (ii) Annually thereafter, per Conditions 1a, 1b, 1c, 1d, 1e, and 1f. A status report on source testing progress shall be provided to the Division Director of the District's Engineering Division and the Compliance & Enforcement Division once every 30 days after start-up until all the source tests have been completed. The District's Source Test Section Manager shall be notified prior to performing any source tests required by this permit condition. Tesla shall also provide raw data gathered from source tests upon request. (Basis: Regulation 2-1-403)
- a. Source test to verify the transfer efficiencies of the coating applicator systems by the methods detailed in the EPA's Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations (dated September 2008).



- (iv) The overall efficiency of the emission control system, expressed as a percentage, shall be calculated according to the following equation:

$$OE = [CE \times DE] / 100$$

Where:

OE = Overall efficiency

CE = Capture efficiency

DE = Control device destruction efficiency

- (v) EPA Test Method 17 or other test methods approved by the District Source Test Manager shall be used to determine the control efficiency of the dry filters of the Primer Surfacer (spray primer) Booths S-3008 & S-1008, the Topcoat (base coat) Booths S-3014 & S-1014, and the Topcoat (clear coat) Booths S-3016 & S-32014.
- (vi) Test methods approved by the District Source Test Manager shall be used to determine the outlet grain loading rate of filterable PM<sub>10</sub> exhausting out of Primer Booths S-3008 & S-1008 abated by E-scrub A-30083 & A-10083, respectively, the Basecoat Booths S-3014 & S-1014 abated by E-scrub A-30145 & A-10146, respectively, and the Clearcoat Booths S-3016 & S-32014 abated by A-30165 & A-320141, respectively.
- (vii) Information gathered from the above steps shall be used in concert with the source throughput information, if applicable, in order to verify compliance with the mass emission limits outlined in parts A.2.2 (POC), A.2.5 (PM<sub>10</sub>), A.2.6 (NO<sub>x</sub>), A.2.7 (CO), and A.2.8 (SO<sub>2</sub>).
- (viii) Within 60 days of the above described source testing, a report documenting results shall be provided to the District's Source



Test Section Manager. This 60 day period may be extended to 90 days, if Tesla can demonstrate to the satisfaction of the APCO that the additional time is required. If the source testing indicates any violation of the permit conditions [total mass emissions greater than emission limits for coating line (booth(s) and oven(s) combined)], Tesla shall report such violation to the Division Director of the District's Engineering Division and the Compliance & Enforcement Division and substantiate their findings.

- e. Source testing required in this permit can be used to verify applicable requirements of the following rules for sources at the North Paint Shop:

- (i) District Regulation 8, Rule 13, "Light and Medium Duty Motor Vehicle Assembly Plants"; and

- (ii) 40 CFR 60, Subpart MM "Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations"; and

- (iii) 40 CFR 63, Subpart IIII "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks".

- 2. At least 30 days before start-up, Tesla shall notify the District of any changes that were not originally applied for in the permit application (# 26812) and for which an Authority to Construct was not issued, such as new sources or abatement equipment, make and/or model changes, throughput changes, exhaust flow rate changes, substitution of solvent based coatings for water based coatings. Tesla shall submit a permit application to the District for any changes that the District determines to be modifications to



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the permit, and shall not operate such sources until it receives the District's formal approval in writing. (Basis: Regulation 2-1-403)

3. Unless approved in writing by the APCO, Tesla shall shutdown the following sources at the South Paint Shop and move them to the North Paint Shop within one year of start-up of this Authority to Construct (# 26812):

S-1008 Truck Prime Booth  
(Referred to as Spray Booth #4: Primer at North Paint Shop)

S-1014 Truck Topcoat Booth  
(Referred to as Spray Booth #5: Basecoat at North Paint Shop)

S-1009 Truck Prime Oven  
(Referred to as Oven #7: Primer at North Paint Shop)

S-1015 Truck Topcoat Oven  
(Referred to as Oven #10: Clearcoat at North Paint Shop)

S-1803 Truck Sealer Deck  
(Referred to as Sealant Station #5 at North Paint Shop)

A-1008 Primer Surface Thermal Heat Recovery/Thermal Oxidizer  
(Referred to as Regenerative Thermal Oxidizer #2 at North Paint Shop)

(Basis: Regulation 2-1-403)

4. During the start-up period, vehicles may be processed through either the South Paint Shop or North Paint Shop, as long as the total number of vehicles produced at both paint shops combined



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does not exceed 25 vehicles per hour.  
(Basis: Regulation 2-1-403)

**A.2. Conditions and Emission Limits Common to All Sources  
at the North Paint Shop:**

1. All conditions shall be in effect at all times during equipment operation, including period of equipment start-up, unless otherwise indicated.

For the purposes of determining compliance with emissions and/or usage limits, a year is defined as a twelve month consecutive period; a month is defined as a calendar month. (Basis: Regulation 2-1-403)

2. Total emissions of organic compounds from the North Paint Shop sources, calculated on the basis of coating, sealant, and solvent usage and including any reductions due to abatement, shall not exceed 603.02 tons per year (TPY) of Precursor Organic Compounds (POC). The POC emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (601.01 TPY + 2.01 TPY).  
(Basis: Cumulative Increase)
3. The combined total natural gas usage for all North Paint Shop combustion sources shall not exceed 7.46 Million (MM) Therms per year. Records of natural gas usage, including records provided by the utility company, shall be maintained for five years from the date of entry and shall be maintained available for District personnel upon request. Tesla shall only use a District-approved gas meter.  
(Basis: Cumulative Increase)
4. Only natural gas, propane, butane, and LPG shall be used as fuel for all North Paint Shop combustion sources by employing good combustion practices. .  
(Basis: Cumulative Increase)



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5. The total Particulate Matter less than 10 microns (PM10) emissions from spray booths (S-3008, S-3014, S-3016, S-1008, S-1014, and S-32014) and the combustion sources (S-32006, S-3009, S-32009, S-3015, S-32010, S-32011, S-1009, S-1013, S-3017, S-1015, A-1008, and A-3008) at the North Paint Shop shall not exceed 17.16 TPY. The PM10 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (14.38 TPY + 2.78 TPY). (Basis: Cumulative Increase)
6. The total Oxides of Nitrogen (NOx) emissions from the combustion sources (S-32006, S-3009, S-32009, S-3015, S-32010, S-32011, S-1009, S-1013, S-3017, S-1015, A-1008, and A-3008) at the North Paint Shop shall not exceed 33.89 TPY. (Basis: Cumulative Increase)
7. The total Carbon Monoxide (CO) emissions from the combustion sources (S-32006, S-3009, S-32009, S-3015, S-32010, S-32011, S-1009, S-1013, S-3017, S-1015, A-1008, and A-3008) at the North Paint Shop shall not exceed 73.61 TPY. (Basis: Cumulative Increase)
8. The total Sulfur Dioxide (SO2) emissions from the combustion sources (S-32006, S-3009, S-32009, S-3015, S-32010, S-32011, S-1009, S-1013, S-3017, S-1015, A-1008, and A-3008) at the North Paint Shop shall not exceed 0.22 TPY. (Basis: Cumulative Increase)
9. The operator of this source shall maintain the following data:
  - a) Usage records of each coating shall be kept on a monthly basis.
  - b) Amount of clean-up solvent used shall be kept on a monthly basis.



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- c) To determine compliance, monthly compliance reports showing coating and clean-up usage and calculated emissions shall be submitted to the Division Director of the District's Engineering Division and the Compliance & Enforcement Division. The format and content of the compliance reports must be submitted to the District for prior approval. If an exceedance is calculated, Tesla shall submit a written report to the District with this monthly report in order to demonstrate that North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2.

Records shall be available for District inspection for a period of at least five (5) years following the date on which such data or reports are recorded or made.

(Basis: Recordkeeping)

10. In order to demonstrate compliance with Condition Numbers 6 and 7, Tesla shall calculate on a quarterly basis the NOx and CO mass emission rates, using natural gas usage records and District approved NOx and CO emission factors. The NOx and CO emission factors for S-32006, S-3009, S-32009, S-3015, S-32010, S-32011, S-1009, S-1013, S-3017, S-1015, A-1008, and A-3008 shall be based on the results of the source tests, required by the District in the conditions for the Authority to Construct for the North Paint Shop. (Basis: Regulation 2-1-403)
11. To allow for future operational flexibility without falling into the category of a "major modification" as defined in Regulation 2, Rule 2, changes to limits on material usage and/or VOC contents and relocation of coatings between sources at the North Paint Shop are allowed, provided all of the following criteria are met:



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- a. Changes do not result in overall emissions exceeding the limits specified in Condition A.2.2 (POC), A.2.5 (PM10), A.2.6 (NOx), A.2.7 (CO), and A.2.8 (SO2).
- b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Regulation 2-1-403, Cumulative Increase, Toxics)

12. Should POC, PM10, NOx, CO, and/or SO2 emissions exceed their respective emission limits in Condition A.2.2 (POC), A.2.5 (PM10), A.2.6 (NOx), A.2.7 (CO), and A.2.8 (SO2), the owner/operator shall submit a change of permit conditions application for amendment of the limit upon District approval. Such application shall include a demonstration that the sources meet BACT requirements and that emissions remain below PSD and CEQA significance thresholds. The owner/operator shall also provide emission reduction credits (ERCs) as needed to offset the higher emission limits. ERCs will be calculated as part of the permit application process.  
[Basis: Cumulative Increase, BACT, Offsets]
13. None of the coatings shall contain any lead, or lead compounds.  
(Basis: Regulation 2-1-403, Regulation 2, Rule 5)
14. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable District and federal regulations.  
(Basis: Regulation 2-1-403)
15. The owner/operator shall comply with all applicable provisions of the federal Standards of Performance for



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New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, and 40 CFR 63, Subpart IIII.  
(Basis: Regulation 2-1-403)

16. The owner/operator shall determine the VOC content of any coating or material as applied and as received using District approved test methods and/or federal Reference Test Method 24. The VOC content of any coating may alternatively be determined from manufacturer's formulation data.  
(Basis: Regulation 2-1-403)
17. The owner/operator shall complete and maintain all required emission calculations in a format acceptable to the APCO by the end of each calendar month. Within 30 days of the end of each calendar month, the owner/operator shall sum the monthly totals for the last consecutive 12-month period to determine compliance with the annual limits. The owner/operator shall report to the BAAQMD and the EPA any non-compliance in accordance with Standard Condition I.F of the Major Facility Review permit, and shall make all attempts to come back into compliance. All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.  
(Basis: Regulation 2-1-403)
18. The owner/operator shall maintain a current listing from the manufacturer of the chemical composition of each coating and material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be kept on file for a period of at least five years and shall be made available to the APCO upon request.  
(Basis: Recordkeeping)
19. The owner/operator shall keep production, usage, VOCs, solids content, and emission calculation records on a monthly basis for each coating or material used. The



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records shall be kept in a format acceptable to the APCO, and as a minimum, shall indicate the following:

- a. The number of production days per month.
- b. The monthly usage rate of each material or coating (in gallons).
- c. For each coating or material: Monthly records showing:

- i. The pounds of VOCs per gallon as applied.

The VOC content should include acetone if required by Regulation 8, Rule 13.

- ii. The solids volume fraction.

- d. The calculated average monthly VOC emission rate in pounds per gallon of applied coating solids.

- e. Calculated VOC emission rates in pounds per day (based upon a monthly proration) and tons per year based upon a 12-month rolling time period.

The VOC emission rates calculated should include acetone if required by Regulation 8, Rule 13.

The owner/operator shall maintain such records for a period of at least five years and shall make them available to the APCO upon request. (Basis: Recordkeeping)

**A.3. Conditions Pertaining to 40 CFR 63, Subpart IIII "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks" Requirements:**

1. The owner/operator shall limit combined organic HAP emissions to the atmosphere from primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to 40 CFR 63.3082(c) to no more than 0.060 kg/liter (0.50 lb/gal) of applied coating solids used during each month, determined according to the requirements in 40 CFR 63.3171.
2. The owner/operator shall limit average organic HAP emissions from all adhesive and sealer materials other than materials used as components of glass bonding systems to no more than 0.010 kg/kg (lb/lb) of adhesive and sealer material used during each month.



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3. The owner/operator shall develop and implement a work practice plan to minimize the organic HAP emissions from the storage, mixing and conveying of coatings, thinners, and cleaning materials used in, and waste materials generated by all coating operations. The work practice plan shall specify practices and procedures to ensure that, at a minimum, the following elements are implemented consistent with the requirements of 40 CFR 63.3094:

The owner/operator shall comply with the applicable work practice plans at all times.

- a. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
- b. The risk of spills of organic-HAP containing coatings, thinners, cleaning materials, and waste materials must be minimized.
- c. Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
- d. Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.
- e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
- f. Organic HAP emissions from cleaning and from purging of equipment associated with all coating operations must be minimized by a plan addressing:
  - i. Vehicle body wipe pursuant to 40 CFR 63.3094(c)(1)(i) and/or applicable requirement;
  - ii. Coating line purging pursuant to 40 CFR 63.3094(c)(1)(ii) and/or applicable requirement;
  - iii. Coating system flushing pursuant to 40 CFR 63.3094(c)(1)(iii) and/or applicable requirement;



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- iv. Cleaning of spray booth grates pursuant to 40 CFR 63.3094(c)(1)(iv) and/or applicable requirement;
- v. Cleaning of spray booth walls pursuant to 40 CFR 63.3094(c)(1)(v) and/or applicable requirement;
- vi. Cleaning of spray booth equipment pursuant to 40 CFR 63.3094(c)(1)(vi) and/or applicable requirement;
- vii. Cleaning of external spray booth areas pursuant to 40 CFR 63.3094(c)(1)(vii) and/or applicable requirement;
- viii. Additional housekeeping measures pursuant to 40 CFR 63.3094(c)(1)(viii) and/or applicable requirement.

The owner/operator may choose to comply with an alternative to the work practice standard, after receiving prior approval from the USEPA in accordance with 40 CFR 63.6(g).

Copies of the current work practice plan and any earlier plan developed within the past 5 years shall be made available for inspection to the APCO upon request.

(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3094)

4. For any coating operation(s) for which HAP emission reductions due to the use of add-on control equipment are relied upon to demonstrate compliance with emission limits, the owner/operator shall meet the operating limits specified in Table 1 of 40 CFR 63, Subpart IIII as identified below. The operating limits in Table 1 apply to the emission capture and add-on control systems on the coating operations. The owner/operator must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3167. The operating limits shall be met at all times after they are established, except for periods of startup, shutdown and malfunction.

(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3093, 40 CFR 63.3100(b) and (d) and Table 1)

Add-On Control Device	Operating Limit
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).
Emission Capture System that	The direction of the air flow at all times must be into the



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Add-On Control Device	Operating Limit
is a Permanent Total Enclosure (PTE), Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	enclosure; and either: The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or, The pressure drop across the enclosure must be at least 0.007 inch water, as established in Method 204 of Appendix M to 40 CFR 51.
Emission Capture System that is not a PTE, Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to 40 CFR 63.3167(f).

5. The owner/operator shall develop and implement a written startup, shutdown and malfunction plan (SSMP) in accordance with 40 CFR 63.6(e)(3). This plan must address the startup, shutdown and corrective actions in the event of a malfunction of any emission capture system or add-on control device upon which compliance with any of the emission limits depends. The SSMP must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3100(f))
6. The owner/operator shall operate and maintain coating operations including any emission capture system or add-on control device upon which compliance with any of the emission limits depends according to the provisions in 40 CFR 63.6(e)(1)(i).  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3100(d))
7. The owner/operator shall maintain a log detailing the operation and maintenance of any emission capture system, add-on control device, or continuous parameter monitor upon which compliance with any of the emission limits depends. The log shall cover the period between the compliance date specified in 40 CFR 63.3083 and the date when the initial emission capture system and add-on control device performance tests have been completed, as specified in 40 CFR 63.3160.  
(Basis: (40 CFR, Part 63, Subpart IIII; 40 CFR 63.3100(e))
8. The owner/operator shall perform the applicable performance tests and compliance demonstrations in accordance with 40



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CFR 63.3150-3152, 40 CFR 63.3160-3161, 40 CFR 63.3163-3168, 40 CFR 63.3170-3171, and 40 CFR 63.3173.

(Basis: 40 CFR, Part 63, Subpart IIII)

9. The owner/operator shall determine the mass fraction of each organic HAP for each material used according to the procedures established under 40 CFR 63.3151(a)(1) through (5). The owner/operator may use USEPA Method ALT-017 as an alternative for any material used, after demonstrating to the APCO that its use as an alternative test methodology for that material, has been approved by the USEPA pursuant to the requirements of 40 CFR 63.3151(a)(3) and 40 CFR 63.7.

(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.7, 40 CFR 63.3151)

10. The owner/operator shall compile all required records and complete all required calculations in a format acceptable to the Division Director of the District's Engineering Division and the Compliance & Enforcement Division and shall make them available by the end of the calendar month.
- (Basis: Regulation 2-1-403)

11. The owner/operator shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, or 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month.
- (Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))

12. The owner/operator shall install, operate and maintain each Continuous Parameter Monitoring System (CPMS) according to the requirements of 40 CFR 63.3168(a). If the capture system contains a bypass line, the owner/operator shall comply with the requirements of 40 CFR 63.3168(b).
- (Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3168)

13. The owner/operator shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in



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40 CFR 63.3131. (Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3152(c), 40 CFR 63.3163(j))

14. The owner/operator shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
  - a. A copy of each notification and report that is submitted to comply with 40 CFR, Part 63, Subpart IIII and the documentation supporting each notification and report.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(a))
  - b. A current copy of information provided by materials suppliers or manufactures, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(b))
  - c. For each coating or thinner used, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids.  
(Basis: (40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(c))
  - d. Calculations of the organic HAP emission rate in pounds per gallon of applied coating solids. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)
  - e. The name, volume, mass fraction organic HAP content and density of each cleaning material used.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(d) - (f))



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- f. Any records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits depends, pursuant to 40 CFR 63.3130(g) through (o).  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(g) - (o))
- g. Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits depends must be maintained on-site for the life of the equipment in a location readily available to plant operators and District inspectors.  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3130(o))
15. For coating operations using add-on controls, the owner/operator shall demonstrate continuous compliance with the operating limits specified in Table 1 of 40 CFR, Part 63, Subpart IIII for any emission capture system or add-on control device upon which compliance with any of the emission limits depends pursuant to 40 CFR 63.3163 and 40 CFR 63.3173 using the method(s) described below:  
(Basis: 40 CFR, Part 63, Subpart IIII; 40 CFR 63.3163, 40 CFR 63.3173 and Table 1)

Add-On Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).	a. Collect the combustion temperature data according to 40 CFR 63.3168(c); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average combustion temperature at or above temperature limit.
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).	a. Collect the temperature data according to 40 CFR 63.3168(f); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average temperature at or above the temperature limit.
Emission Capture System that is a Permanent Total	The direction of the air flow at all times must be into the enclosure; and either:	a. Collect the direction of air flow, and either the facial velocity of air through all



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Add-On Control Device	Operating Limit	Continuous Compliance Demonstration Method
Enclosure (PTE), Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	<p>The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or,</p> <p>The pressure drop across the enclosure must be at least 0.007 inch water, as established in Method 204 of Appendix M to 40 CFR 51.</p>	<p>natural draft openings according to 40 CFR 63.3168(g)(1) or the pressure drop across the enclosure according to 40 CFR 63.3168(g)(2); and</p> <p>b. Maintain the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times.</p>
Emission Capture System that is not a PTE, Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	<p>The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to 40 CFR 63.3167(f).</p>	<p>a. Collecting the gas volumetric flow rate or duct static pressure for each capture device according to 40 CFR 63.3168(g);</p> <p>b. Reducing the data to 3-hour block averages; and</p> <p>c. Maintaining the 3-hour average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limit.</p>

#### B. Conditions for S-32004 Pretreatment Tank System

1. In no event shall the annual emissions from S-32004 exceed 0.0601 tons per year or 15 pounds per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. (Basis: Cumulative Increase)

#### C. Conditions for

S-32005 E-Coat System

S-32006 Oven #1 (E-Coat); Maximum Hourly Firing Rate:  
15.19 MMBTU/hour

S-32011 Oven #6 (E-Coat); Maximum Hourly Firing Rate:  
15.19 MMBTU/hour



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1. In no event shall the annual emissions from S-32005 exceed 0.0409 tons per year or 10.23 pounds per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2.

The owner/operator shall operate the electrocoat dip tank such that adequate positive flow of air into the electrocoat dip tank occurs whenever S-32005 is in operation. Adequate positive flow of air into the dip tank shall be demonstrated according to a method acceptable to the District's Source Test Section. In addition, the owner/operator shall keep all access doors and windows on the electrocoat dip tank closed whenever the S-32005 is in operation.

The owner/operator shall ensure the VOC mass emissions limit in pounds per gallon of applied coating solids (gacs) at S-32005 does not exceed 1.42 lb/gacs. The owner/operator shall continuously monitor the concentration of the emulsion feed and paste feed in water to ensure the VOC mass emissions limit is not exceeded.

The owner/operator shall ensure all HAP emissions from S-32006 and S-32011 are captured and ducted to thermal oxidizers A-3008 and A-1008, which have a destruction or removal efficiency of at least 95%.

(Basis: Regulation 2-1-403, Cumulative Increase, 60.392 (a)(1)(i), 63.3092(b))

2. The usage of E-Coat Resin and E-Coat Paste used in S-32005 shall not exceed 663,242 gallons and 67,891 gallons, respectively in any consecutive 12-month period, unless the owner/operator of this source can demonstrate to the satisfaction of the APCO that a change in E-Coat resin and/or



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paste used will not result in emissions exceeding those stipulated in Condition #1.

One or more of these coatings usages may increase above the specified usage limits provided there is a corresponding usage decrease for one or more of the other coatings, which is based on controlled emissions, so that total emissions do not exceed the limit, specified in Condition No. 1. The operator of this source shall provide the Division Director of the District's Engineering Division and the Compliance & Enforcement Division documentation to demonstrate compliance with Condition No. 1 within 30 days of the exceedance of any of the coating limits.

(Basis: Cumulative Increase)

3. The natural gas heater boxes for the Ovens #1 and #6 (S-32006 and S-32011) shall utilize low-NOx burners or equivalent. In no event shall the combined annual emissions from S-32006 and S-32011 exceed 14.53 tons per year or 3,633 pounds per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. The POC emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 14.10 TPY + 0.43 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1.

(Basis: Cumulative Increase)

4. The owner/operator shall ensure POC emissions from the Ovens #1 and #6 (S-32006 and S-32011) are abated at all times of operation by the properly installed and properly maintained regenerative thermal oxidizers A-3008 (abating S-32006) and A-1008 (abating S-32011).

(Basis: Regulation 2-1-403)



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5. The mass emission calculations for the Ovens #1 and #6 (S-32006 and S-32011) are based on an overall efficiency of the emission control system of 80.75% (oven capture efficiency of 85% x regenerative thermal oxidizer destruction efficiency of 95% by wt.)  
(Basis: Cumulative Increase, Regulation 2-1-403)

6. The combustion chamber of the regenerative thermal oxidizers A-3008 (abating S-32006) and A-1008 (abating S-32011) shall be equipped with District approved continuous temperature measuring and recording instrumentation. The temperature measuring and recording instrumentation shall be installed, calibrated and maintained according to accepted practice and the manufacture's specifications.

The temperature chart (or digital) recorder periods of in-operation greater than 24 hours shall be reported to the District's Compliance and Enforcement Division within the following working day by telephone and within three days in writing, followed by the notification of resumption of operation. Until the temperature chart (or digital) recorder is in correct operation, the temperature shall be manually recorded every two hours. Adequate proof of expeditious repair shall be furnished to the APCO for downtime in excess of fifteen consecutive days.

(Basis: Regulation 2-6-503)

7. The regenerative thermal oxidizers A-3008 (abating S-32006) and A-1008 (abating S-32011) shall be source tested annually, unless a different schedule is approved. After prior notification to and approval from the District's Source Test Section Manager, source testing shall be performed to determine the VOC control efficiency of the abatement devices, in accordance with the District's Manual of Procedures. Stack sampling ports and platform(s)



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shall be provided at the booth exhaust stacks, the oven exhaust stacks, the inlet and outlet of A-1008 and A-3008. Records of the source test results and a maintenance schedule shall be kept. All records shall be kept and made available for District inspection for a period of five years following the date a record was made.  
(Basis: Regulation 2-1-403)

8. Within 60 days of the above described source testing, a report documenting results shall be provided to the District. This 60 day period may be extended to 90 days, if Tesla can demonstrate to the satisfaction of the APCO that the additional time is required. If the source testing indicates any violation of the permit conditions, Tesla shall report such violation to the permit engineer and the Division Director of the District's Engineering Division and the Compliance & Enforcement Division.  
(Basis: Regulation 2-1-301, 2-6-503)
9. In no event shall the annual emissions from Ovens #1 and #6 (S-32006 and S-32011) exceed 0.59 tons per year or 148 pounds per month of Particulate Matter less than 10 microns (PM10), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. The PM10 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 0.59 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1.  
(Basis: Cumulative Increase)
10. In no event shall the annual emissions from Ovens #1 and #6 (S-32006 and S-32011) exceed 5.49 tons per year or 1,373 pounds per month of Oxides of Nitrogen (NOx), unless Tesla notifies the District within 30 calendar days of such an



exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.6. The NO<sub>x</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 5.49 TPY) and was calculated based on a NO<sub>x</sub> emission factor of 0.05 lb/MMBTU. Compliance with this mass emissions limit and the NO<sub>x</sub> emission factor shall be verified via source testing required by part A.1. (Basis: Cumulative Increase, BACT)

11. In no event shall the annual emissions from Ovens #1 and #6 (S-32006 and S-32011) exceed 6.46 tons per year or 1,615 pounds per month of Carbon Monoxide (CO), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.7. The CO emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 6.46 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
12. In no event shall the annual emissions from Ovens #1 and #6 (S-32006 and S-32011) exceed 0.04 tons per year or 10 pounds per month of Sulfur Dioxide (SO<sub>2</sub>), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.8. The SO<sub>2</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 0.04 TPY). Compliance with this mass emissions limit shall be verified using District approved emission calculation methodology specified in part A.1. (Basis:



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Cumulative Increase)

13. The owner/operator shall ensure annual natural gas usage at S-32006 and S-32011 does not exceed 798,233 Therms/year (Annual Average Firing Rate: 9.11 MMBTU/hour) and 770,566 Therms/year (Annual Average Firing Rate: 8.80 MMBTU/hour), respectively.  
(Basis: Cumulative Increase)

**D. Conditions for Sealant Stations**

S-32007 Sealing Station #1  
S-3025 Sealing Station #2  
S-32008 Sealing Station #3  
S-32012 Sealing Station #4  
S-1803 Sealing Station #5  
S-32013 Sealing Station #6

1. In no event shall the annual emissions from S-32007, S-3025, S-32008, S-32012, S-1803, and S-32013 exceed 0.203 tons per year or 50.75 pounds per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2.

The owner/operator shall ensure S-32007, S-3025, S-32008, S-32012, S-1803, and S-32013 comply with the HAP mass emissions limit in Condition A.3.

(Basis: Regulation 2-1-403, Cumulative Increase, 60.392 (a)(2), 63.3090(b))

2. The combined usage of sealants at S-32007, S-3025, S-32008, S-32012, S-1803, and S-32013 shall not exceed 1,029,600 gallons in any consecutive 12-month period, unless the owner/operator of this source can demonstrate to the satisfaction of the APCO that a change in sealants used will not result in emissions exceeding those stipulated in Condition #1.



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One or more of these sealant usages may increase above the specified usage limits provided there is a corresponding usage decrease for one or more of the other sealants, which is based on uncontrolled emissions, so that total emissions do not exceed the limit, specified in Condition No. 1. The operator of this source shall provide the Division Director of the District's Engineering Division and the Compliance & Enforcement Division documentation to demonstrate compliance with Condition No. 1 within 30 days of the exceedance of any of the coating limits. (Basis: Cumulative Increase)

E. Conditions for

S-3008 Spray Booth #1 (Primer)

S-3009 Oven #2 (Primer); Maximum Hourly Firing Rate:  
15.09 MMBTU/hour

S-1008 Spray Booth #4 (Primer)

S-1009 Oven #7 (Primer); Maximum Hourly Firing Rate:  
15.09 MMBTU/hour

1. In no event shall the combined annual emissions from S-3008, S-3009, S-1008, and S-1009 exceed 214.35 tons per year or 26.79 tons per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. Compliance with this mass emissions limit shall be verified via source testing required by part A.1.

The owner/operator shall ensure VOC emissions from the combined primer, basecoat, and clearcoat operations at S-1008, S-1014, S-3008, S-3014, S-3016 and S-32014 does not exceed 4.8 pounds per gallon of applied coating solids as averaged on a monthly basis. Compliance with this limit shall be verified via emission calculations and



recordkeeping required by part A.2.19.

The owner/operator shall ensure S-3008 and S-1008 comply with the HAP mass emissions limit in Condition A.3.

(Basis: Regulation 2-1-403, Cumulative Increase, BACT, 60.392 (a)(2), 63.3090(b))

2. The coatings used at S-3008 and S-1008 shall not exceed 270,895 gallons in any consecutive 12-month period, unless the owner/operator of this source can demonstrate to the satisfaction of the APCO that a change in coatings used will not result in emissions exceeding those stipulated in Condition #1.

One or more of these coatings usages may increase above the specified usage limits provided there is a corresponding usage decrease for one or more of the other coatings, which is based on controlled emissions, so that total emissions do not exceed the limit, specified in Condition No. 1. The operator of this source shall provide the Division Director of the District's Engineering Division and the Compliance & Enforcement Division documentation to demonstrate compliance with Condition No. 1 within 30 days of the exceedance of any of the coating limits.  
(Basis: Cumulative Increase)

3. The natural gas heater boxes for the Ovens #2 and #7 (S-3009 and S-1009) shall utilize low-NOx burners or equivalent. In no event shall the annual emissions from S-3009 and S-1009 exceed 99.31 tons per year or 12.41 tons per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. The POC emissions listed above is inclusive of emissions associated with the painting & sealant process and combustion



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emissions (based on 98.93 TPY + 0.38 TPY).  
Compliance with this mass emissions limit shall  
be verified via source testing required by part  
A.1.

(Basis: Cumulative Increase)

4. The owner/operator shall ensure POC emissions from the Spray Booths #1 and #4 (S-3008 and S-1008) and the Ovens #2 and #7 (S-3009 and S-1009) are abated at all times of operation by the properly installed and properly maintained regenerative thermal oxidizers A-3008 (abating S-3008 & S-3009) and A-1008 (abating S-1008 & S-1009).  
(Basis: Regulation 2-1-403)
5. The mass emission calculations for the Spray Booths #1 and #4 (S-3008 and S-1008) and the Ovens #2 and #7 (S-3009 and S-1009) are based on an overall efficiency of the emission control system of 66.5% (booth & oven capture efficiency of 70% x regenerative thermal oxidizer destruction efficiency of 95% by wt.) The calculations also assume emissions from the sealant operations that are unabated are emitted in the Primer Ovens.  
(Basis: Cumulative Increase, Regulation 2-1-403)
6. The combustion chamber of the regenerative thermal oxidizers A-3008 (abating S-3008 & S-3009) and A-1008 (abating S-1008 & S-1009) shall be equipped with District approved continuous temperature measuring and recording instrumentation. The temperature measuring and recording instrumentation shall be installed, calibrated and maintained according to accepted practice and the manufacture's specifications.

The temperature chart (or digital) recorder periods of in-operation greater than 24 hours shall be reported to the District's Compliance and Enforcement Division within the following working day by telephone and within three days in writing, followed by the notification of



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resumption of operation. Until the temperature chart (or digital) recorder is in correct operation, the temperature shall be manually recorded every two hours. Adequate proof of expeditious repair shall be furnished to the APCO for downtime in excess of fifteen consecutive days. (Basis: Regulation 2-6-503)

7. The regenerative thermal oxidizers A-3008 (abating S-3008 & S-3009) and A-1008 (abating S-1008 & S-1009) shall be source tested annually, unless a different schedule is approved. After prior notification to and approval from the District's Source Test Section Manager, source testing shall be performed to determine the VOC control efficiency of the abatement devices, in accordance with the District's Manual of Procedures. Stack sampling ports and platform(s) shall be provided at the booth exhaust stacks, the oven exhaust stacks, the inlet and outlet of A-1008 and A-3008. Records of the source test results and a maintenance schedule shall be kept. All records shall be kept and made available for District inspection for a period of five years following the date a record was made. (Basis: Regulation 2-1-403)
8. Within 60 days of the above described source testing, a report documenting results shall be provided to the District. This 60 day period may be extended to 90 days, if Tesla can demonstrate to the satisfaction of the APCO that the additional time is required. If the source testing indicates any violation of the permit conditions, Tesla shall report such violation to the permit engineer and the Division Director of the District's Engineering Division and the Compliance & Enforcement Division. (Basis: Regulation 2-1-301, 2-6-503)
9. In no event shall the annual emissions from Spray Booths #1 and #4 (S-3008 and S-1008) and the Ovens #2 and #7 (S-3009 and S-1009) exceed 5.62 tons per year or 1,405 pounds per month of



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Particulate Matter less than 10 microns (PM10), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. The PM10 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 5.10 TPY + 0.52 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)

10. The owner/operator shall ensure PM10 emissions from the Spray Booths #1 and #4 (S-3008 and S-1008) are abated at all times of operation by the properly installed and properly maintained E-Scrub Systems A-30083 and A-10083, respectively. The owner/operator shall ensure the outlet grain loading rate of filterable PM10 emissions exhausting out of A-30083 and A-10083 is at/below 0.0015gr/dscf. Compliance with this outlet grain loading limit shall be verified via source testing required by part A.1.  
(Basis: Regulation 2-1-403, BACT)
11. The mass emission PM10 calculations for the Spray Booths #1 and #4 (S-3008 and S-1008) are based on a transfer efficiency of 70%, a booth capture efficiency of 100%, and E-Scrub System control efficiency of 98%.  
(Basis: Cumulative Increase, Regulation 2-1-403)
12. In no event shall the annual emissions from Ovens #2 and #7 (S-3009 and S-1009) exceed 4.90 tons per year or 1,225 pounds per month of Oxides of Nitrogen (NOx), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.6. The NOx emissions listed above



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is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 4.90 TPY) and was calculated based on a NOx emission factor of 0.05 lb/MMBTU. Compliance with this mass emissions limit and the NOx emission factor shall be verified via source testing required by part A.1. (Basis: Cumulative Increase, BACT)

13. In no event shall the annual emissions from Ovens #2 and #7 (S-3009 and S-1009) exceed 5.78 tons per year or 1,445 pounds per month of Carbon Monoxide (CO), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.7. The CO emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 5.78 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
14. In no event shall the annual emissions from Ovens #2 and #7 (S-3009 and S-1009) exceed 0.04 tons per year or 10 pounds per month of Sulfur Dioxide (SO2), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.8. The SO2 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 0.04 TPY). Compliance with this mass emissions limit shall be verified using District approved emission calculation methodology specified in part A.1. (Basis: Cumulative Increase)
15. The owner/operator shall ensure annual natural gas usage at S-3009 and S-1009 does not exceed 700,930 Therms/oven/year (Annual Average)



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Firing Rate: 8.00 MMBTU/oven/hour).  
(Basis: Cumulative Increase)

F. Conditions for

S-3014 Spray Booth #2 (Basecoat)

S-3015 Oven #4 (Basecoat); Maximum Hourly Firing Rate:  
2.95 MMBTU/hour

S-1014 Spray Booth #5 (Basecoat)

S-3017 Oven #9 (Basecoat); Maximum Hourly Firing Rate:  
2.95 MMBTU/hour

1. In no event shall the combined annual emissions from S-3014, S-3015, S-1014, and S-3017 exceed 105.06 tons per year or 13.13 tons per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. Compliance with this mass emissions limit shall be verified via source testing required by part A.1.

The owner/operator shall ensure VOC emissions from the combined primer, basecoat, and clearcoat operations at S-1008, S-1014, S-3008, S-3014, S-3016 and S-32014 does not exceed 4.8 pounds per gallon of applied coating solids as averaged on a monthly basis. Compliance with this limit shall be verified via emission calculations and recordkeeping required by part A.2.19.

The owner/operator shall ensure S-3014 and S-1014 comply with the HAP mass emissions limit in Condition A.3.

(Basis: Regulation 2-1-403, Cumulative Increase, BACT, 60.392 (b), 63.3090(b))

2. The coatings used at S-3014 and S-1014 shall not exceed 591,612 gallons in any consecutive 12-month period, unless the owner/operator of this source can demonstrate to the satisfaction of the APCO that a change in coatings used will not



result in emissions exceeding those stipulated in Condition #1.

One or more of these coatings usages may increase above the specified usage limits provided there is a corresponding usage decrease for one or more of the other coatings, which is based on controlled emissions, so that total emissions do not exceed the limit, specified in Condition No. 1. The operator of this source shall provide the Division Director of the District's Engineering Division and the Compliance & Enforcement Division documentation to demonstrate compliance with Condition No. 1 within 30 days of the exceedance of any of the coating limits.  
(Basis: Cumulative Increase)

3. The natural gas heater boxes for the Ovens #4 and #9 (S-3015 and S-3017) shall utilize low-NOx burners or equivalent. In no event shall the annual emissions from S-3015 and S-3017 exceed 31.64 tons per year or 3.96 tons per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. The POC emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 31.54 TPY + 0.10 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
4. The owner/operator shall ensure POC emissions from the Basecoat Booths and Basecoat Ovens are abated at all times of operation by the properly installed and properly maintained regenerative thermal oxidizers A-3008 (abating S-3014 & S-3015) and A-1008 (abating S-1014 & S-3017).  
(Basis: Regulation 2-1-403)



5. The mass emission calculations for the Spray Booths #2 and #5 (S-3014 and S-1014) and Ovens #4 and #9 (S-3015 and S-3017) are based on an overall efficiency of the emission control system of 66.5% (booth & oven capture efficiency of 70% x regenerative thermal oxidizer destruction efficiency of 95% by wt.).  
(Basis: Cumulative Increase, Regulation 2-1-403)

6. The combustion chamber of the regenerative thermal oxidizers A-3008 (abating S-3014 & S-3015) and A-1008 (abating S-1014 & S-3017) shall be equipped with District approved continuous temperature measuring and recording instrumentation. The temperature measuring and recording instrumentation shall be installed, calibrated and maintained according to accepted practice and the manufacture's specifications.

The temperature chart (or digital) recorder periods of in-operation greater than 24 hours shall be reported to the District's Compliance and Enforcement Division within the following working day by telephone and within three days in writing, followed by the notification of resumption of operation. Until the temperature chart (or digital) recorder is in correct operation, the temperature shall be manually recorded every two hours. Adequate proof of expeditious repair shall be furnished to the APCO for downtime in excess of fifteen consecutive days. (Basis: Regulation 2-6-503)

7. The regenerative thermal oxidizers A-3008 (abating S-3014 & S-3015) and A-1008 (abating S-1014 & S-3017) shall be source tested annually, unless a different schedule is approved. After prior notification to and approval from the District's Source Test Section Manager, source testing shall be performed to determine the VOC control efficiency of the abatement devices, in accordance with the District's Manual of Procedures. Stack sampling ports and platform(s) shall be provided at the booth exhaust stacks,



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the oven exhaust stacks, the inlet and outlet of A-1008 and A-3008. Records of the source test results and a maintenance schedule shall be kept. All records shall be kept and made available for District inspection for a period of five years following the date a record was made.  
(Basis: Regulation 2-1-403)

8. Within 60 days of the above described source testing, a report documenting results shall be provided to the District. This 60 day period may be extended to 90 days, if Tesla can demonstrate to the satisfaction of the APCO that the additional time is required. If the source testing indicates any violation of the permit conditions, Tesla shall report such violation to the permit engineer and the Division Director of the District's Engineering Division and the Compliance & Enforcement Division.  
(Basis: Regulation 2-1-301, 2-6-503)
9. In no event shall the annual emissions from Spray Booths #2 and #5 (S-3014 and S-1014) and the Ovens #4 and #9 (S-3015 and S-3017) exceed 3.6 tons per year or 900 pounds per month of Particulate Matter less than 10 microns (PM10), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. The PM10 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 3.46 TPY + 0.14 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
10. The owner/operator shall ensure PM10 emissions from the Spray Booths #2 and #5 (S-3014 and S-1014) are abated at all times of operation by the properly installed and properly maintained E-Scrub Systems A-30145 and A-10146, respectively.



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The owner/operator shall ensure the outlet grain loading rate of filterable PM10 emissions exhausting out of A-30145 and A-10146 is at/below 0.0015 gr/dscf. Compliance with this outlet grain loading limit shall be verified via source testing required by part A.1.  
(Basis: Regulation 2-1-403, BACT)

11. The mass emission PM10 calculations for the Spray Booths #2 and #5 (S-3014 and S-1014) are based on a transfer efficiency of 70%, a booth capture efficiency of 100%, and E-Scrub System control efficiency of 98%.  
(Basis: Cumulative Increase, Regulation 2-1-403)
12. In no event shall the annual emissions from Ovens #4 and #9 (S-3015 and S-3017) exceed 1.32 tons per year or 330 pounds per month of Oxides of Nitrogen (NO<sub>x</sub>), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.6. The NO<sub>x</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 1.32 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1.  
(Basis: Cumulative Increase)
13. In no event shall the annual emissions from Ovens #4 and #9 (S-3015 and S-3017) exceed 1.56 tons per year or 390 pounds per month of Carbon Monoxide (CO), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.7. The CO emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY +



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1.56 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)

14. In no event shall the annual emissions from Ovens #4 and #9 (S-3015 and S-3017) exceed 0.02 tons per year or 10 pounds per month of Sulfur Dioxide (SO<sub>2</sub>), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.8. The SO<sub>2</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 0.02 TPY). Compliance with this mass emissions limit shall be verified using District approved emission calculation methodology specified in part A.1. (Basis: Cumulative Increase)
15. The owner/operator shall ensure annual natural gas usage at S-3015 and S-3017 does not exceed 188,309 Therms/oven/year (Annual Average Firing Rate: 2.15 MMBTU/oven/hour). (Basis: Cumulative Increase)

**G. Conditions for**

**S-3016 Spray Booth #3 (Clearcoat)**

**S-32010 Oven #5 (Clearcoat); Maximum Hourly Firing Rate:  
16.9 MMBTU/hour**

**S-32014 Spray Booth #6 (Clearcoat)**

**S-1015 Oven #10 (Clearcoat); Maximum Hourly Firing Rate:  
16.9 MMBTU/hour**

1. In no event shall the combined annual emissions from S-3016, S-32010, S-32014, and S-1015 exceed 268.09 tons per year or 33.51 tons per month of



Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. Compliance with this mass emissions limit shall be verified via source testing required by part A.1.

The owner/operator shall ensure VOC emissions from the combined primer, basecoat, and clearcoat operations at S-1008, S-1014, S-3008, S-3014, S-3016 and S-32014 does not exceed 4.8 pounds per gallon of applied coating solids as averaged on a monthly basis. Compliance with this limit shall be verified via emission calculations and recordkeeping required by part A.2.19.

The owner/operator shall ensure S-3016 and S-32014 comply with the HAP mass emissions limit in Condition A.3.

(Basis: Regulation 2-1-403, Cumulative Increase, BACT, 60.392 (c), 63.3090(b))

2. The coatings used at S-3016 and S-32014 shall not exceed 428,722 gallons in any consecutive 12-month period, unless the owner/operator of this source can demonstrate to the satisfaction of the APCO that a change in coatings used will not result in emissions exceeding those stipulated in Condition #1.

One or more of these coatings usages may increase above the specified usage limits provided there is a corresponding usage decrease for one or more of the other coatings, which is based on controlled emissions, so that total emissions do not exceed the limit, specified in Condition No. 1. The operator of this source shall provide the Division Director of the District's Engineering Division and the Compliance & Enforcement Division documentation to demonstrate compliance



with Condition No. 1 within 30 days of the exceedance of any of the coating limits.  
(Basis: Cumulative Increase)

3. The natural gas heater boxes for the Ovens #10 and #5 (S-1015 and S-32010) shall utilize low-NO<sub>x</sub> burners or equivalent. In no event shall the annual emissions from S-32010 and S-1015 exceed 80.71 tons per year or 10.09 tons per month of Precursor Organic Compounds (POC), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2. The POC emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 80.30 TPY + 0.41 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
4. The owner/operator shall ensure POC emissions from the Spray Booths #3 and #6 (S-3016 and S-32014) and Ovens #5 and #10 (S-32010 and S-1015) are abated at all times of operation by the properly installed and properly maintained regenerative thermal oxidizers A-1008 (abating S-3016 & S-32010) and A-3008 (abating S-32014 & S-1015).  
(Basis: Regulation 2-1-403)
5. The mass emission calculations for the Spray Booths #3 and #6 (S-3016 and S-32014) and Ovens #5 and #10 (S-32010 and S-1015) are based on an overall efficiency of the emission control system of 66.5% (booth & oven capture efficiency of 70% x regenerative thermal oxidizer destruction efficiency of 95% by wt.).  
(Basis: Cumulative Increase, Regulation 2-1-403)
6. The combustion chamber of the regenerative thermal oxidizers A-3008 (abating S-3016 & S-



- 32010) and A-1008 (abating S-32014 & S-1015) shall be equipped with District approved continuous temperature measuring and recording instrumentation. The temperature measuring and recording instrumentation shall be installed, calibrated and maintained according to accepted practice and the manufacture's specifications.

The temperature chart (or digital) recorder periods of in-operation greater than 24 hours shall be reported to the District's Compliance and Enforcement Division within the following working day by telephone and within three days in writing, followed by the notification of resumption of operation. Until the temperature chart (or digital) recorder is in correct operation, the temperature shall be manually recorded every two hours. Adequate proof of expeditious repair shall be furnished to the APCO for downtime in excess of fifteen consecutive days. (Basis: Regulation 2-6-503)

7. The regenerative thermal oxidizers A-3008 (abating S-3016 & S-32010) and A-1008 (abating S-32014 & S-1015) shall be source tested annually, unless a different schedule is approved. After prior notification to and approval from the District's Source Test Section Manager, source testing shall be performed to determine the VOC control efficiency of the abatement devices, in accordance with the District's Manual of Procedures. Stack sampling ports and platform(s) shall be provided at the booth exhaust stacks, the oven exhaust stacks, the inlet and outlet of A-1008 and A-3008. Records of the source test results and a maintenance schedule shall be kept. All records shall be kept and made available for District inspection for a period of five years following the date a record was made. (Basis: Regulation 2-1-403)
8. Within 60 days of the above described source testing, a report documenting results shall be provided to the District. This 60 day period may



be extended to 90 days, if Tesla can demonstrate to the satisfaction of the APCO that the additional time is required. If the source testing indicates any violation of the permit conditions, Tesla shall report such violation to the permit engineer and the Division Director of the District's Engineering Division and the Compliance & Enforcement Division.  
(Basis: Regulation 2-1-301, 2-6-503)

9. In no event shall the annual emissions from Spray Booths #3 and #6 (S-3016 and S-32014) and Ovens #5 and #10 (S-32010 and S-1015) exceed 6.4 tons per year or 1,600 pounds per month of Particulate Matter less than 10 microns (PM10), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. The PM10 emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 5.83 TPY + 0.57 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1. (Basis: Cumulative Increase)
10. The owner/operator shall ensure PM10 emissions from the Spray Booths #3 and #6 (S-3016 and S-32014) are abated at all times of operation by the properly installed and properly maintained E-Scrub Systems A-30165 and A-320141, respectively. The owner/operator shall ensure the outlet grain loading rate of filterable PM10 emissions exhausting out of A-30165 and A-320141 is at/below 0.0015 gr/dscf. Compliance with this outlet grain loading limit shall be verified via source testing required by part A.1.  
(Basis: Regulation 2-1-403, BACT)
11. The mass emission PM10 calculations for the Spray Booths #3 and #6 (S-3016 and S-32014) are based on a transfer efficiency of 70%, a booth capture



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efficiency of 100%, and E-Scrub System control efficiency of 98%.

(Basis: Cumulative Increase, Regulation 2-1-403)

12. In no event shall the annual emissions from Ovens #5 and #10 (S-32010 and S-1015) exceed **5.33 tons per year or 1,333 pounds per month of Oxides of Nitrogen (NO<sub>x</sub>)**, unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.6. The NO<sub>x</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 5.33 TPY) and was calculated based on a NO<sub>x</sub> emission factor of 0.05 lb/MMBTU. Compliance with this mass emissions limit and the NO<sub>x</sub> emission factor shall be verified via source testing required by part A.1.  
(Basis: Cumulative Increase, BACT)
13. In no event shall the annual emissions from Ovens #5 and #10 (S-32010 and S-1015) exceed **6.27 tons per year or 1,568 pounds per month of Carbon Monoxide (CO)**, unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.7. The CO emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 6.27 TPY). Compliance with this mass emissions limit shall be verified via source testing required by part A.1.  
(Basis: Cumulative Increase)
14. In no event shall the annual emissions from Ovens #5 and #10 (S-32010 and S-1015) exceed **0.04 tons per year or 10 pounds per month of Sulfur Dioxide (SO<sub>2</sub>)**, unless Tesla notifies the District within



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30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.8. The SO<sub>2</sub> emissions listed above is inclusive of emissions associated with the painting process and combustion emissions (based on 0.00 TPY + 0.04 TPY). Compliance with this mass emissions limit shall be verified using District approved emission calculation methodology specified in part A.1. (Basis: Cumulative Increase)

15. The owner/operator shall ensure annual natural gas usage at S-32010 and S-1015 does not exceed 719,344 Therms/year (Annual Average Firing Rate: 8.21 MMBTU/hour) and 803,467 Therms/year (Annual Average Firing Rate: 9.17 MMBTU/hour), respectively.  
(Basis: Cumulative Increase)

H. Conditions for

S-3018 Dry Sanding Booth #1  
S-1003 Dry Sanding Booth #2

1. In no event shall the combined annual emissions from S-3018 and S-1003 exceed 36.41 pounds per year or 4.55 pounds per month of Particulate Matter less than 10 microns (PM<sub>10</sub>), unless Tesla notifies the District within 30 calendar days of such an exceedance and submits a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.5. (Basis: Cumulative Increase)

I. Conditions for

S-32009 Oven #3 (Wet Sanding Booth); Maximum Hourly Firing Rate: 12.8 MMBTU/hour  
S-1013 Oven #8 (Wet Sanding Booth); Maximum Hourly Firing Rate: 12.8 MMBTU/hour

1. In no event shall the combined annual combustion emissions from S-32009 and S-1013 exceed the



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following emission limits:

Precursor Organic Compounds (POC)

0.38 tons per year or 95 pound per month;

Particulate Matter less than 10 microns (PM10)

0.52 tons per year or 130 pounds per month;

Oxides of Nitrogen (NOx)

4.9 tons per year or 1,225 pounds per month

Carbon Monoxide (CO)

5.76 tons per year or 1,440 pounds per month

Sulfur Dioxide (SO2)

0.04 tons per year or 10 pounds per month

In the event the above emission limits are exceeded, Tesla shall notify the District within 30 calendar days of any exceedance and submit a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2, A.2.5 through A.2.8. NOx emissions were calculated based on a NOx emission factor of 0.05 lb/MMBTU. Compliance with mass emissions limits for all the above pollutants (except SO2) and the NOx emission factor shall be verified via source testing required by part A.1. Compliance with SO2 mass emissions limit shall be verified using District approved emission calculation methodology specified in part A.1.

(Basis: Cumulative Increase, BACT)

2. The owner/operator shall ensure annual natural gas usage at S-32009 and S-1013 does not exceed 699,435 Therms/oven/year (Annual Average Firing Rate: 7.98 MMBTU/oven/hour).

(Basis: Cumulative Increase)

J. Conditions for

A-3008 Regenerative Thermal Oxidizer #1; Maximum Hourly Firing Rate: 6.82 MMBTU/hour



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**A-1008 Regenerative Thermal Oxidizer #2; Maximum Hourly Firing Rate: 6.82 MMBTU/hour**

1. In no event shall the combined annual combustion emissions from A-1008 and A-3008 exceed the following emission limits:

Precursor Organic Compounds (POC)

0.32 tons per year or 80 pound per month;

Particulate Matter less than 10 microns (PM10)

0.44 tons per year or 110 pounds per month;

Oxides of Nitrogen (NOx)

11.94 tons per year or 1.49 tons per month

Carbon Monoxide (CO)

47.79 tons per year or 5.97 tons per month

Sulfur Dioxide (SO2)

0.04 tons per year or 10 pounds per month

In the event the above emission limits are exceeded, Tesla shall notify the District within 30 calendar days of any exceedance and submit a written report with the scheduled, monthly report to demonstrate that the overall North Paint Shop sources will not exceed the overall emissions limit specified in Condition A.2.2, A.2.5 through A.2.8.  
(Basis: Cumulative Increase)

2. The owner/operator shall ensure that the supplemental fuel used at A-1008 and A-3008 is PUC quality natural gas (Basis: Cumulative Increase)
3. The owner/operator shall not emit more than 50 ppmvd NOx @ 15% O2 (0.20 lbs/MMBtu) from A-1008 and A-3008 (Basis: RACT, Source Test Method 13A)
4. The owner/operator shall not emit more than 350 ppmvd CO @ 15% O2 (0.80 lbs/MMBtu) from A-1008 and A-3008 (Basis: RACT, Source Test Method 6)
5. The owner/operator shall maintain a minimum operating temperature of 1400 degrees F at A-1008 and A-3008 at all times when one or more sources abated by the thermal oxidizers are in operation.  
(Basis: BACT)



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6. The owner/operator shall report any non-compliance with Part 5 of this permit condition to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(Basis: Cumulative Increase, Regulation 2, Rule 5)

7. Within 60 days of starting up A-1008 and A-3008 and annually thereafter, the owner/operator shall conduct District approved source tests to determine initial compliance with the RACT limits in parts 3 and 4 of this permit condition. The owner/operator shall submit the source test results to the District's Source Test Section for review and approval within 60 days of performing the source test.

(Basis: RACT, Cumulative Increase)

8. The owner/operator shall obtain approval of all source test procedures from the Manager of the District's Source Test Section prior to conducting any tests to demonstrate compliance with the limits in parts 3 and 4 of this permit condition. The owner/operator shall comply with all applicable testing requirements as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the Manager of the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing.

(Basis: RACT, Cumulative Increase)

9. The respective minimum temperature and abatement efficiency requirements for Thermal Oxidizers (A-1008 and A-3008) located at Tesla shall not apply during an "Allowable Temperature Excursion" below the minimum temperature requirement, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:



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- a. A temperature excursion not exceeding 20 degrees F; or
- b. A temperature excursion period or periods aggregating less than or equal to 15 minutes in any hour; or
- c. A temperature excursion greater than 15 minutes but less than 3 hours in duration, provided that all of the following are satisfied:
  - i. There are no more than 2 excursions per facility (Plant No. 20459) per calendar day;
  - ii. There are no more than 2 excursions per abatement device per calendar month; and
  - iii. There are no more than 5 excursions per facility (Plant No. 20459) per calendar month.

(Basis: Regulation 2-6-503)

- 10. Tesla shall keep sufficient records to demonstrate that they meet all qualifying criteria for Allowable Temperature Excursions, including but not limited to the following:
  - a. Starting date and time, and the duration of each Allowable Temperature Excursion;
  - b. Minimum temperature during each Allowable Temperature Excursion;
  - c. Number of Allowable Temperature Excursions (> 15 minutes) per abatement device per calendar month;



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- d. Total number of Allowable Temperature Excursions (> 15 minutes) for the entire facility per calendar month.

A summary of these records shall be included in Tesla's monthly report to the District.  
(Basis: Regulation 2-6-503)

11. The District reserves the right to revise or revoke conditions 9 and 10 in the future if source operations change significantly such that the basis for granting this condition is no longer valid. (Basis: Regulation 2-1-403)
12. The owner/operator shall monitor and record the temperature of the thermal oxidizers on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the District's Source Test Section. All temperature data shall be kept on file for a period of at least five years and shall be made available to the APCO upon request.  
(Basis: Regulation 2-6-503)
13. For each thermal oxidizer in operation during production (coating vehicles, etc.), the owner/operator shall conduct bypass monitoring for each bypass line such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. The owner/operator shall maintain records of the bypass line(s) that was open and the length of time the bypass was open shall be kept on file for at least five years and shall be made available to the APCO upon request.  
(Basis: Regulation 2-6-503)
14. The owner/operator shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected at the thermal oxidizers in



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order to demonstrate compliance with the applicable VOC emission limits:

- a. Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
- b. Perform a heat exchange/heat transfer media inspection a minimum of once every 12 months.
- c. Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 12 months.

(Basis: Recordkeeping)

15. The owner/operator shall ensure annual natural gas usage at A-1008 and A-3008 does not exceed 597,432 Therms/thermal oxidizer/year.

(Basis: Cumulative Increase)

*End of Conditions*



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-1003**

**Dry Sanding Booth #2**

**Emissions directly exhaust to the atmosphere unabated**

Equipment above is subject to attached condition no. 26027.

Approved by

*Jamela / Henry for JK*

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

Plant No. 20459

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

Source No. S-1003

**Email:** mpatil@baaqmd.gov

Application No. 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment.

**S-1008 Spray Booth #4 (Primer)**

*abated by*

A-10083E-Scrub PM<sub>10</sub> filter efficiency: 98%; outlet grain loading rate: 0.0015 gr/dscf

*And abated by*

A-1008 Regenerative Thermal Oxidizer #2; Maximum Hourly Firing Rate: 6.82 MMBTU/hour  
POC destruction efficiency: 95% by wt.

Equipment above is subject to attached condition no. 26027.

Approved by

*Pamela Leong for JK*  
for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

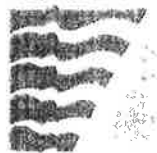
**Source No.** S-1003

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment.

**S-1009      Oven #7 (Primer);**  
**Maximum Hourly Firing Rate: 15.09 MMBTU/hour)**

*abated by*

**A-1008 Regenerative Thermal Oxidizer #2;**  
**Maximum Hourly Firing Rate: 6.82 MMBTU/hour**  
**POC destruction efficiency: 95% by wt.**

Equipment above is subject to attached condition no. 26027.

Approved by

*James H. Karas for JK*

for

JM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Plant No.** 20459

**Tel:** (415) 749-4674      **Fax:** (415) 749-5030

**Source No.** 1009

**Email:** mpatil@baaqmd.gov

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment.

S-1013

**Oven #8 (Wet Sanding Booth);**

**Maximum Hourly Firing Rate: 12.8 MMBTU/hour**

**Emissions directly exhaust to the atmosphere unabated**

Equipment above is subject to attached condition no. 26027.

Approved by

*Jim Karas* for JK

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Plant No.** 20459

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Source No.** 1013

**Email:** mpatil@baaqmd.gov

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

### Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

**Tesla Motors Inc.**  
45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-1014 Spray Booth #5 (Basecoat)**

*abated by*

**A-10146 E-Scrub** PM<sub>10</sub> filter efficiency: 98%; outlet grain loading rate: 0.0015 gr/dscf

*And abated by*

**A-1008 Regenerative Thermal Oxidizer #2; Maximum Hourly Firing Rate: 6.82 MMBTU/hour**  
POC destruction efficiency: 95% by wt.

Equipment above is subject to attached condition no. 26027.

Approved by

for

*Pamela H. Karas*  
JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

**Source No.** 1014

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

S-1015 Oven #10 (Clearcoat);  
Maximum Hourly Firing Rate: 16.9 MMBTU/hour)

abated by

A-1008 Regenerative Thermal Oxidizer #2;  
Maximum Hourly Firing Rate: 6.82 MMBTU/hour  
POC destruction efficiency: 95% by wt.

Equipment above is subject to attached condition no. 26027.

Approved by

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer  
**Tel:** (415) 749-4674 **Fax:** (415) 749-5030  
**Email:** mpatil@baaqmd.gov

**Plant No.** 20459  
**Source No.** 1015  
**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-1803 Sealing Station #5**  
**Emissions directly exhaust to the atmosphere unabated**

Equipment above is subject to attached condition no. 26027.

Approved by

*Samuel J. Karas for JK*

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Plant No.** 20459

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Source No.** 1803

**Email:** mpatil@baaqmd.gov

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-3008 Spray Booth #1 (Primer)**

*abated by*

**A-3008 Regenerative Thermal Oxidizer #1 Maximum Hourly Firing Rate: 6.82 MMBTU/hour**

**POC destruction efficiency: 95% by wt.**

*And abated by*

**A-30083 E-Scrub PM<sub>10</sub> filter efficiency: 98%; outlet grain loading rate: 0.0015 gr/dscf**

Equipment above is subject to attached condition no. 26027.

Approved by

for

*Pamela J. Ray for JK*

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaamd.gov

**Plant No.** 20459

**Source No.** 3008

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-3009**

**Oven #2 (Primer);**

**Maximum Hourly Firing Rate: 15.09 MMBTU/hour**

*abated by*

**A-3008 Regenerative Thermal Oxidizer #1 Maximum Hourly Firing Rate: 6.82 MMBTU/hour**

**POC destruction efficiency: 95% by wt.**

Equipment above is subject to attached condition no. 26027.

Approved by

*Pamela / Leg for JK*

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

**Source No.** 3009

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

### Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

#### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-3014 Spray Booth #2 (Basecoat)**

*abated by*

**A-3008 Regenerative Thermal Oxidizer #1** Maximum Hourly Firing Rate: 6.82 MMBTU/hour POC destruction efficiency: 95% by wt.

*And abated by*

**A-30145 E-Scrub PM<sub>10</sub> filter** efficiency: 98%; outlet grain loading rate: 0.0015 gr/dscf

Equipment above is subject to attached condition no. 26027.

Approved by



for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

### Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

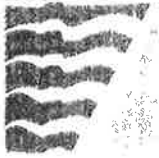
**Source No.** 3014

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-3015 Oven #4 (Basecoat);**  
**Maximum Hourly Firing Rate: 2.95 MMBTU/hour**

*abated by*

**A-3008 Regenerative Thermal Oxidizer #1 Maximum Hourly Firing Rate: 6.82**  
**MMBTU/hour POC destruction efficiency: 95% by wt.**

Equipment above is subject to attached condition no. 26027.

Approved by

for

*James / King for JK*

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

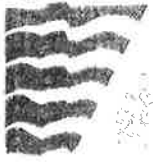
**Source No.** 3015

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

**S-3016 Spray Booth #3 (Clearcoat)**

*abated by*

**A-3008 Regenerative Thermal Oxidizer #1 Maximum Hourly Firing Rate: 6.82 MMBTU/hour**

**POC destruction efficiency: 95% by wt.**

*And abated by*

**A-30165 E-Scrub PM<sub>10</sub> filter efficiency: 98%; outlet grain loading rate: 0.0015 gr/dscf**

Equipment above is subject to attached condition no. 26027.

Approved by

*James H. Karas for JK*  
JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

**Source No.** 3016

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

S-3017 Oven #9 (Basecoat);  
Maximum Hourly Firing Rate: 2.95 MMBTU/hour)

abated by

A-1008 Regenerative Thermal Oxidizer #2; Maximum Hourly Firing Rate: 6.82 MMBTU/hour  
POC destruction efficiency: 95% by wt.

Equipment above is subject to attached condition no. 26027.

Approved by  
for

*Pamela J. Lee for J.K.*  
JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

Engineer: Madhav Patil, Air Quality Engineer  
Tel: (415) 749-4674 Fax: (415) 749-5030  
Email: mpatil@baaqmd.gov

Plant No. 20459  
Source No. 3017  
Application No. 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

## Authority to Construct

(This is not a Permit to Operate)

Plant No. 20459  
Application No. 26812

### Tesla Motors Inc.

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment.

**S-3018      Dry Sanding Booth #1**  
**Emissions directly exhaust to the atmosphere unabated**

Equipment above is subject to attached condition no. 26027.

Approved by

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

## Start-up Notification

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Tel:** (415) 749-4674      **Fax:** (415) 749-5030

**Email:** mpatil@baaqmd.gov

**Plant No.** 20459

**Source No.** 3018

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

**Authority to Construct**

(This is not a Permit to Operate)

Plant No. 20459

Application No. 26812

**Tesla Motors Inc.**

45500 Fremont Blvd., Fremont, CA 94538

is hereby granted an *Authority to Construct* for the following equipment:

S-3025

**Sealing Station #2**

**Emissions directly exhaust to the atmosphere unabated**

Equipment above is subject to attached condition no. 26027.

Approved by

*Pamela J. Long for JK*

for

JIM KARAS, P.E.

DIRECTOR OF ENGINEERING

Issue date: July 9, 2015

Expiration date: July 9, 2017

**Start-up Notification**

**Instructions:** At least **seven days** before the scheduled initial operation contact your assigned Permit Engineer via email or complete and send this Start-up Notification to the District via fax or mail.

**Engineer:** Madhav Patil, Air Quality Engineer

**Plant No.** 20459

**Tel:** (415) 749-4674 **Fax:** (415) 749-5030

**Source No.** 3025

**Email:** mpatil@baaqmd.gov

**Application No.** 26812

The initial operation of this equipment is scheduled for \_\_\_\_\_ (month/day/year)

Print your first and last name \_\_\_\_\_

Telephone No. \_\_\_\_\_