



Application for
Authority to Construct / Permit to Operate
For a Paint Line Modification

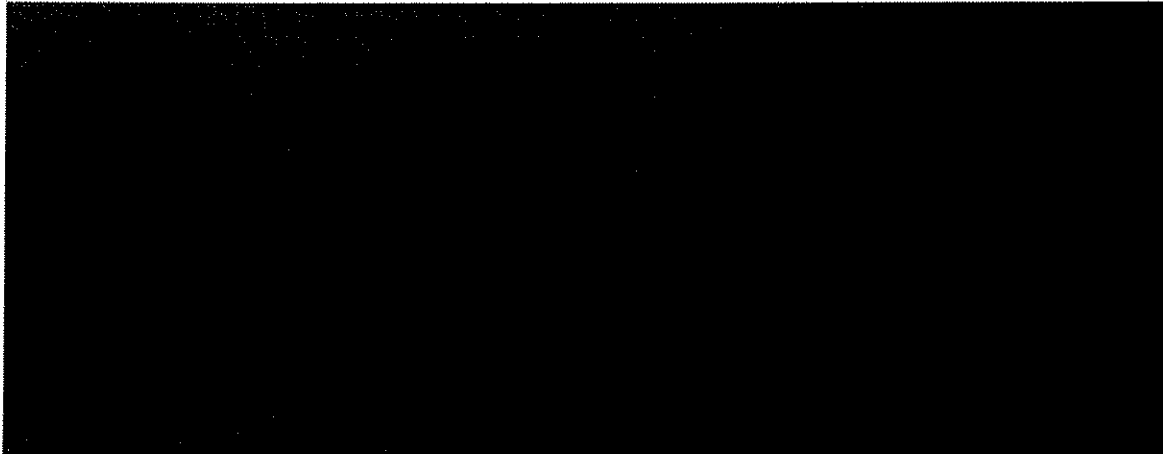
Tesla Motors, Inc.
Fremont, California

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Date:
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1 Introduction

Tesla Motors, Inc. (Tesla) is a leading manufacturer of all-electric vehicles, which qualify as Zero Emission Vehicles (ZEVs), as defined by the State of California and by the United States Environmental Protection Agency (U.S. EPA). Tesla's current production model is the Model S, a premium sedan that goes from 0 to 60 mph in 4.2 seconds and travels up to 265 miles per charge. Tesla is also in the beginning stages of production for the Model X, a crossover utility vehicle. Nearly all production is currently performed at our automotive manufacturing facility located in Fremont, California.

With this application, Tesla is planning a modification to the existing painting operations at its Fremont automotive manufacturing facility. [REDACTED] significantly improve the efficiency of the current paint systems. [REDACTED]

The current project involves modifications [REDACTED]

Please note that the coatings proposed to be used will be the same coatings currently used at the facility. [REDACTED] coatings themselves will remain the same. It is also important to note that the project will achieve an improvement in overall capture and control of POC emissions.

The remainder of this application contains four sections. Section 2 provides information on changes to operations and sources of emissions as a result of the proposed modification. Sections 3 and 4 respectively contain a discussion of applicable BAAQMD regulations, and a discussion of applicable Federal air quality regulations, including the applicability of the Prevention of Significant Deterioration (PSD) program. [REDACTED] A discussion of other New Source Review (NSR) requirements is included in Section 3.

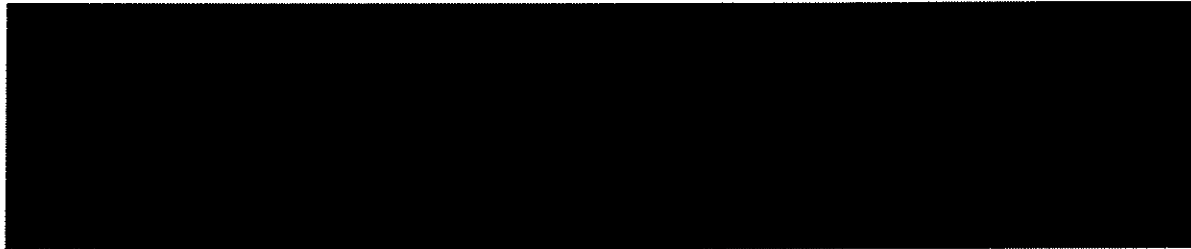
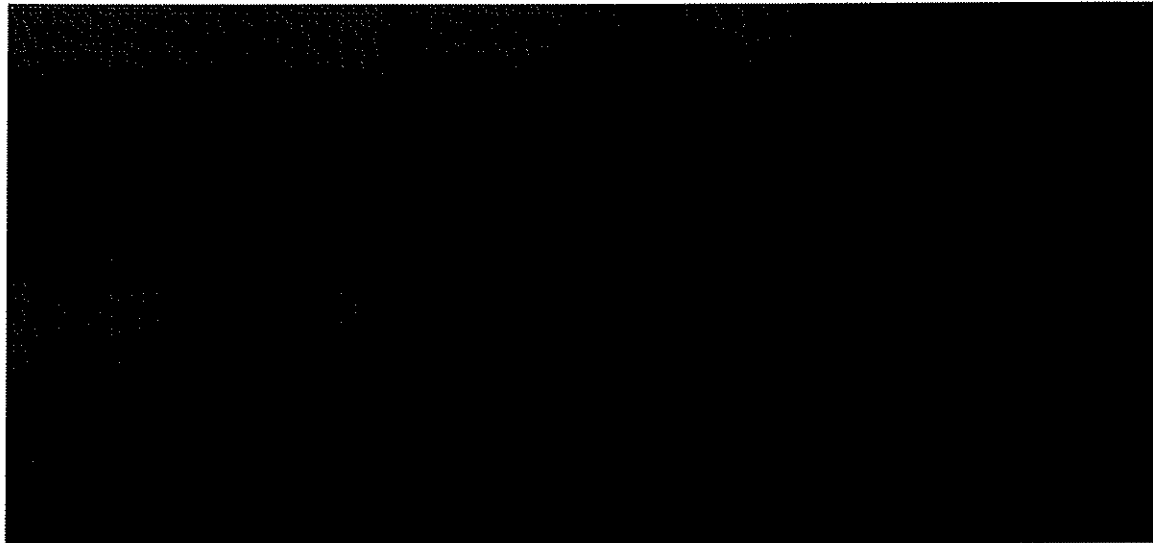
2 Project Description

The proposed modification will happen [REDACTED]

[REDACTED]

Below is a description of each step in the paint process.

[REDACTED]



Criteria pollutant emissions from the proposed project are shown in Table1 (POC emissions) and Tables 2 and 3 (remaining pollutants). Toxic Air Contaminant (TAC) emissions are shown in Table 4. Detailed emissions calculations are provided in Appendix B, including emission factors used in these calculations.

3 BAAQMD Regulations

The following section contains a discussion of the applicability of the main BAAQMD regulations that will be applicable to sources associated with the proposed project. Please note that this is a summary, so generic regulations applicable to all facilities are not included in this discussion (e.g., generally applicable opacity limits in Regulation 6). Please also note that Tesla’s Fremont facility is a Title V major source. So, after the construction and initial operation of the proposed project, Tesla will submit an application to modify its current Title V permit. This application will contain a more comprehensive discussion of all applicable requirements.

3.1 BAAQMD Rule 2-2: New Source Review

BAAQMD Rule 2-2 contains the New Source Review (NSR) program requirements for new and modified sources. The main components of the NSR program are the Best Available Control Technology (BACT) requirement and the requirement to obtain offsets.

3.1.1 Best Available Control Technology (BACT)

BACT is triggered for new and modified emission units with a potential to emit 10 lb/day of precursor organic compounds (POC), non-precursor organic compounds (NPOC), nitrogen oxides (NOx), sulfur dioxide (SO₂), particulate matter less than 10 microns (PM₁₀) or carbon monoxide (CO). [REDACTED]

3.1.2 Offsets

Emissions offsets are triggered by a proposed emissions increase at a facility with emissions greater than the thresholds listed in Rule 2-2. The emissions subject to the offset requirement are determined based on the emissions from the new or modified source and any pre-existing cumulative increase, minus any onsite contemporaneous emission reduction credits.

[REDACTED]

3.1.3 Prevention of Significant Deterioration (PSD)

The Prevention of Significant Deterioration (PSD) program is a Federal air permit program designed to limit the impacts of new major sources or major modifications at existing sources located in areas designated as attainment or unclassifiable for regulated air pollutants. The requirements of the PSD program are incorporated in BAAQMD Rule 2-2-304.

A facility is a major source under the PSD program if it has emissions of any "regulated NSR pollutant" over the applicable major source threshold. [REDACTED]

[REDACTED] Please note that VOC emissions are not regulated under the PSD program in BAAQMD since VOC is regulated as a precursor to ozone, for which BAAQMD has been designed as a federal nonattainment area. However, the facility can still be a major source based on VOC emissions, since VOC is a regulated NSR pollutant. Please also note that PM_{2.5} is not listed above since BAAQMD is designed as a Federal nonattainment area for the 24-hour PM_{2.5} standard. So, PM_{2.5} emissions are also not included in the PSD applicability evaluation.

Based on Section 2-2-304, the PSD program would therefore be triggered by the proposed modification if the cumulative increase, from the PSD Baseline Date, minus the contemporaneous emission reduction credits at the facility are in excess of any of the following:

- NOx: 40 tons/yr
- SOx: 40 tons/yr
- PM₁₀: 15 tons/yr
- Lead: 0.6 tons/yr, or
- CO: 100 tons/yr.

Tables 1 and 3 list the annual emissions from the proposed project. As seen in these tables, the proposed emissions increase would not exceed any of the PSD significance thresholds listed above. We understand that any previous emissions permitted at our facility were covered by emission reduction credits (either contemporaneous credits or purchased offsets). As a result, as long as the emissions increase from the proposed project is below the thresholds listed above, the project would not trigger PSD. Please note that this assessment is actually conservative, since it does not account for any emissions reductions associated with equipment being replaced/modified as part of this project.

USEPA has also adopted the Tailoring Rule with a Greenhouse Gas (GHG) major source threshold of 100,000 tons/year CO₂e and a PSD significant emission level of 75,000 tons/year CO₂e. On June 23, 2014, the U.S. Supreme Court ruled on a case involving the Tailoring Rule, and found that U.S. EPA had over-stepped its authority in adopting the 100,000 tons/year CO₂e major source threshold. However, the Court upheld U.S. EPA's ability to regulate an emissions increase over the GHG significance level from a source that triggers PSD anyway for another pollutant. As discussed above, the proposed project does not trigger PSD anyway for non-GHG pollutants. As a result, PSD would not be required for GHGs under the latest U.S. Supreme Court ruling.

3.2 BAAQMD Rule 2-5: New Source Review of Toxic Air Contaminants

BAAQMD Rule 2-5 contains special NSR provisions for Toxic Air Contaminants (TACs). Under this rule, a two-step process is required. First, hourly and annual emissions from a source are compared to BAAQMD trigger levels. If both hourly and annual emissions of each TAC are below these trigger levels, then no further evaluation is required.

If emissions exceed the threshold for any TAC, then a health risk assessment is required. According to BAAQMD guidelines, a project is considered acceptable if the TAC emissions associated with the project would not exceed any of the following:

- a cancer risk of 10.0 in a million;
- a chronic hazard index of 1.0; or
- an acute hazard index of 1.0.

The use of Best Achievable Control Technology for Toxics (TBACT) where the health risk assessment determines a cancer risk greater than 1.0 in one million, and/or a chronic hazard index greater than 0.20.



3.3 BAAQMD Rule 8-13: Light and Medium Duty Motor Vehicle Assembly Plants

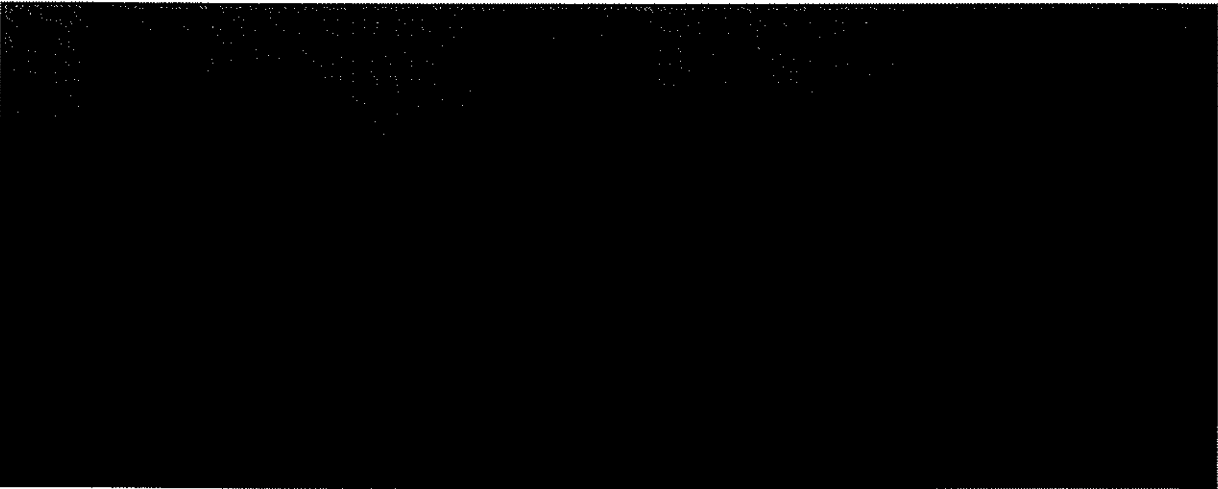
Rule 8-13 contains BAAQMD requirements for POC emissions from light and medium duty motor vehicle plants. The following emission limits apply to painting operations at Tesla:

- Topcoat, Spray Primer, Primer Surfacer: 1.80 kg/L (15.0 lb/gal) of applied coating solids
- Final repair coat: 580 g/L (4.8 lb/gal) of coating applied, excluding water, on a daily weighted average basis
- Electrophoretic Primer: 145 g/L (1.2 lb/gal) or 90% abatement
- Flexible Parts Coatings: meet VOC content limits for coating type or 90% abatement
- Off-Line (touch-up) Coatings: 340 g/L (2.8 lb/gal) of coating applied, excluding water, or 90% abatement

In addition, Rule 8-13 contains requirements to perform monitoring and maintain records, and to meet listed operational requirements for use and storage of cleanup solvent. Rule 8-13 also requires submittal of an annual Compliance Verification. These requirements are already included in the facility's Title V permit, and Tesla will continue to comply with these requirements for the proposed project.

3.4 BAAQMD Rule 9-7: Boilers, Steam Generators, and Process Heaters

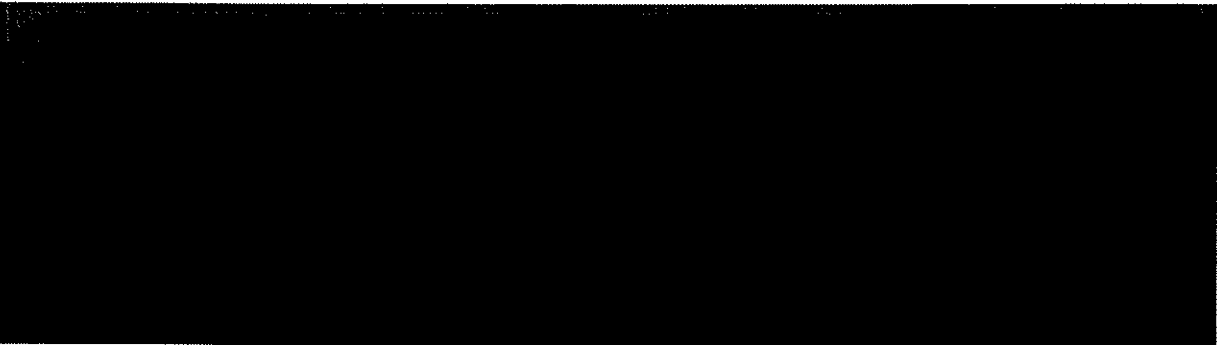
Rule 9-7 contains requirements for boilers and process heaters rated 2 MMBtu/hour and above.



3.5 BAAQMD RACT for Thermal Oxidizers

BAAQMD has adopted a policy implementing Reasonably Available Control Technology (RACT) limits for thermal oxidizers. The limits listed in this policy are as follows:

Pollutant	ppmv @ 15% O ₂	lb/MMBTU
NO _x	50	0.20
CO	350	0.8



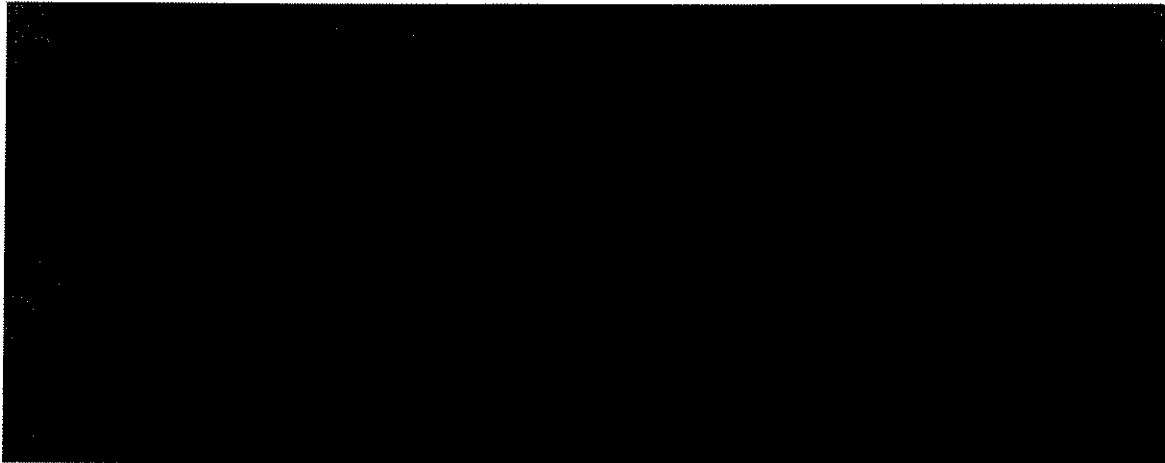
4 Federal Regulations

This section contains a discussion of federal U.S. EPA regulations associated with automotive manufacturing facilities.

4.1 NSPS Subpart MM (Auto NSPS)

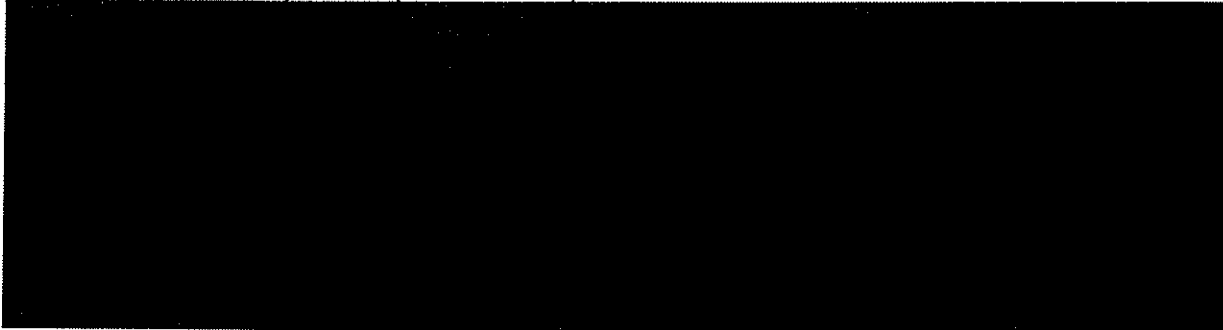
U.S. EPA has adopted a New Source Performance Standards (NSPS) entitled "Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations." This rule can be found in 40 C.F.R. Part 60, Subpart MM. This NSPS applies to each prime coat, guide coat and topcoat operation in an automobile or light-duty truck assembly plant constructed, reconstructed or modified after October 5, 1979. This NSPS contains an explicit exemption for operations used to coat plastic body components.

The following VOC emission limits of this NSPS apply to painting operations at Tesla:



This rule also contains monitoring, recordkeeping and reporting requirements. Tesla is already subject to this NSPS and will continue to comply with these requirements for equipment associated with the proposed project.

4.2 NESHAP Subpart IIII (Auto MACT)



So, Tesla will remain an existing facility under the NESHAP, even after the proposed project is implemented.

Subpart IIII regulates the following sources:

- All coating operations as defined in the rule:
 - Equipment used to apply coating to a substrate and to dry or cure the coating after application.
 - A single coating operation always includes at least the point at which a coating is applied and all subsequent points in the affected source where organic HAP emissions occur.
- All storage containers and mixing vessels in which coatings, thinners, and cleaning materials are stored or mixed.
- All manual and automated equipment and containers used for conveying coatings, thinners, and cleaning materials.
- All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation

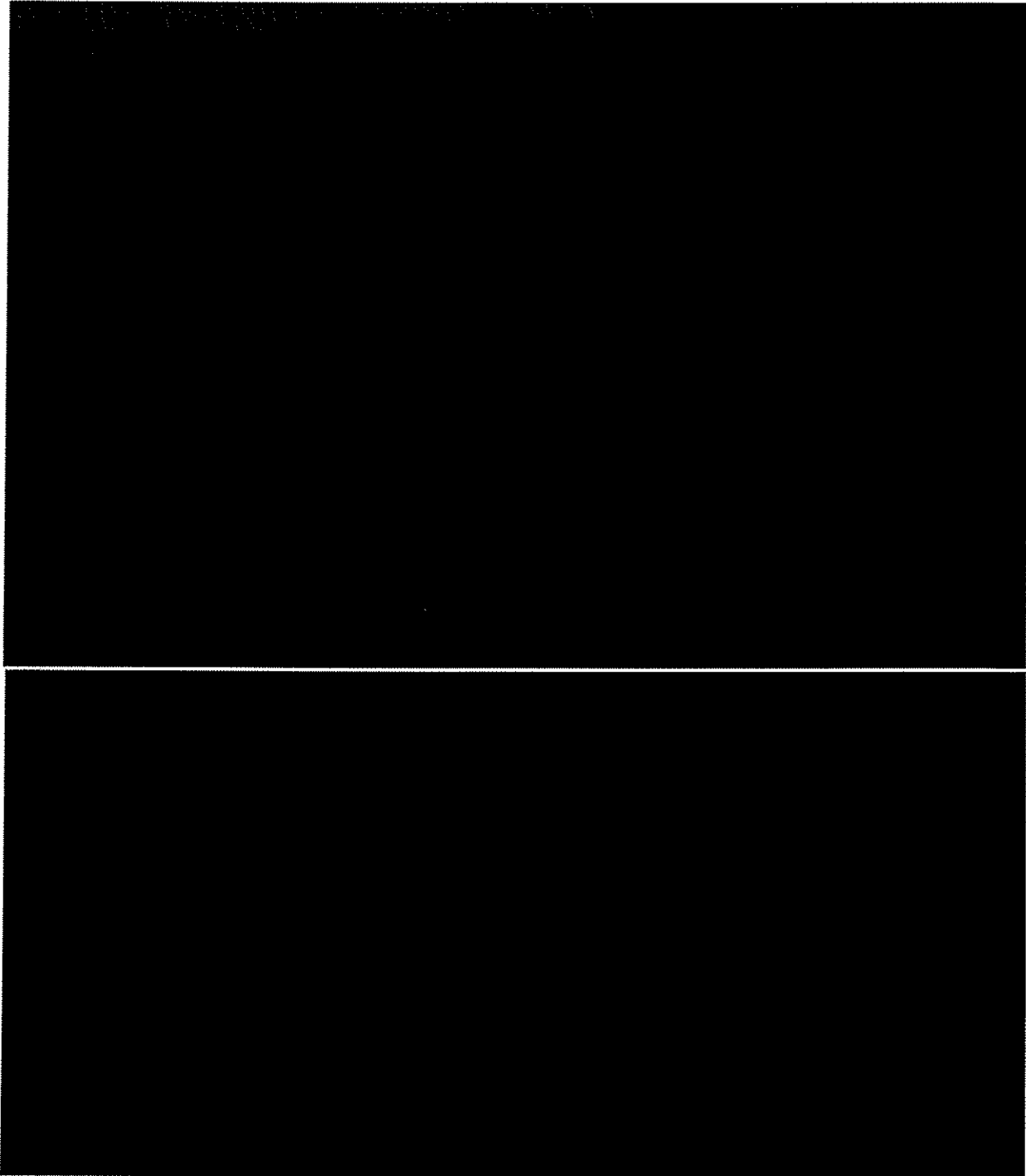
The following VOC/HAP emission limits apply:

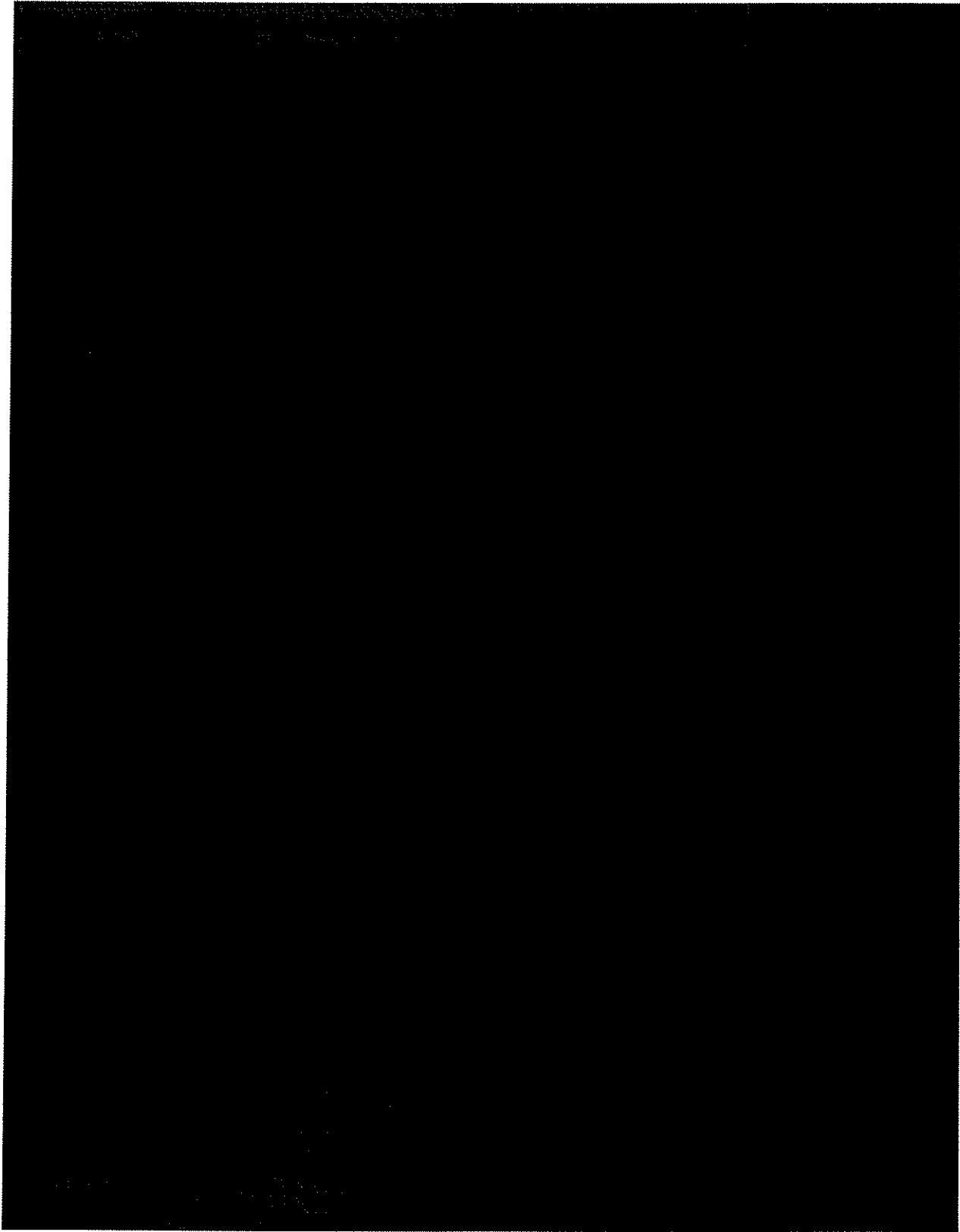
- VOC emissions <0.072 kg/liter of coating solids deposited;
- HAP content of coating <1%; OR
- Vent oven emissions to control device with 95% control

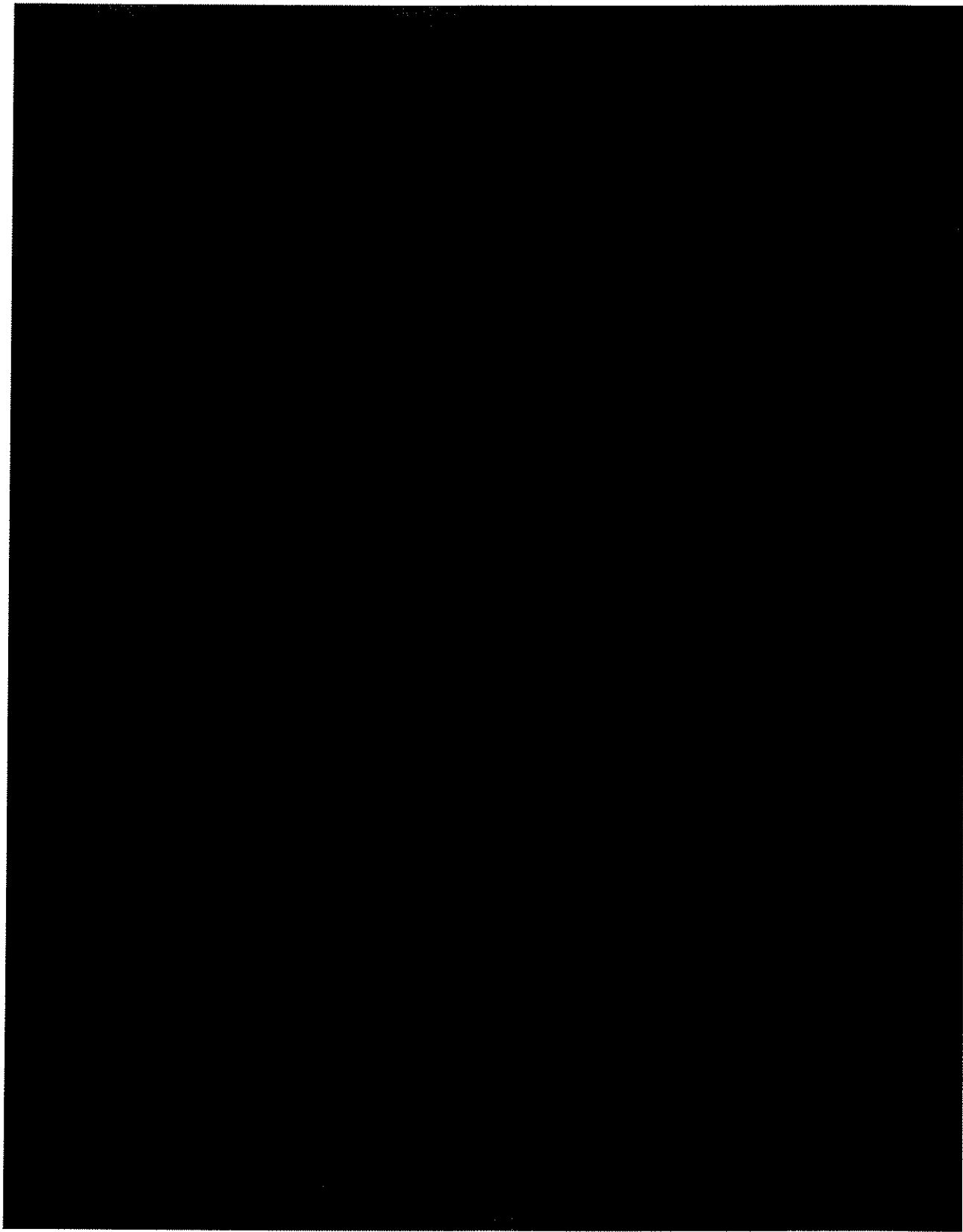
Finally, the NESHAP requires each facility to develop and implement a work practice plan to minimize organic HAP emissions, and to develop a written Startup, Shutdown, and Malfunction Plan (SSMP), if a control device is used to achieve compliance with the rule. Continuous monitoring of emissions or control device parameters, as well as recordkeeping and reporting, are also required.

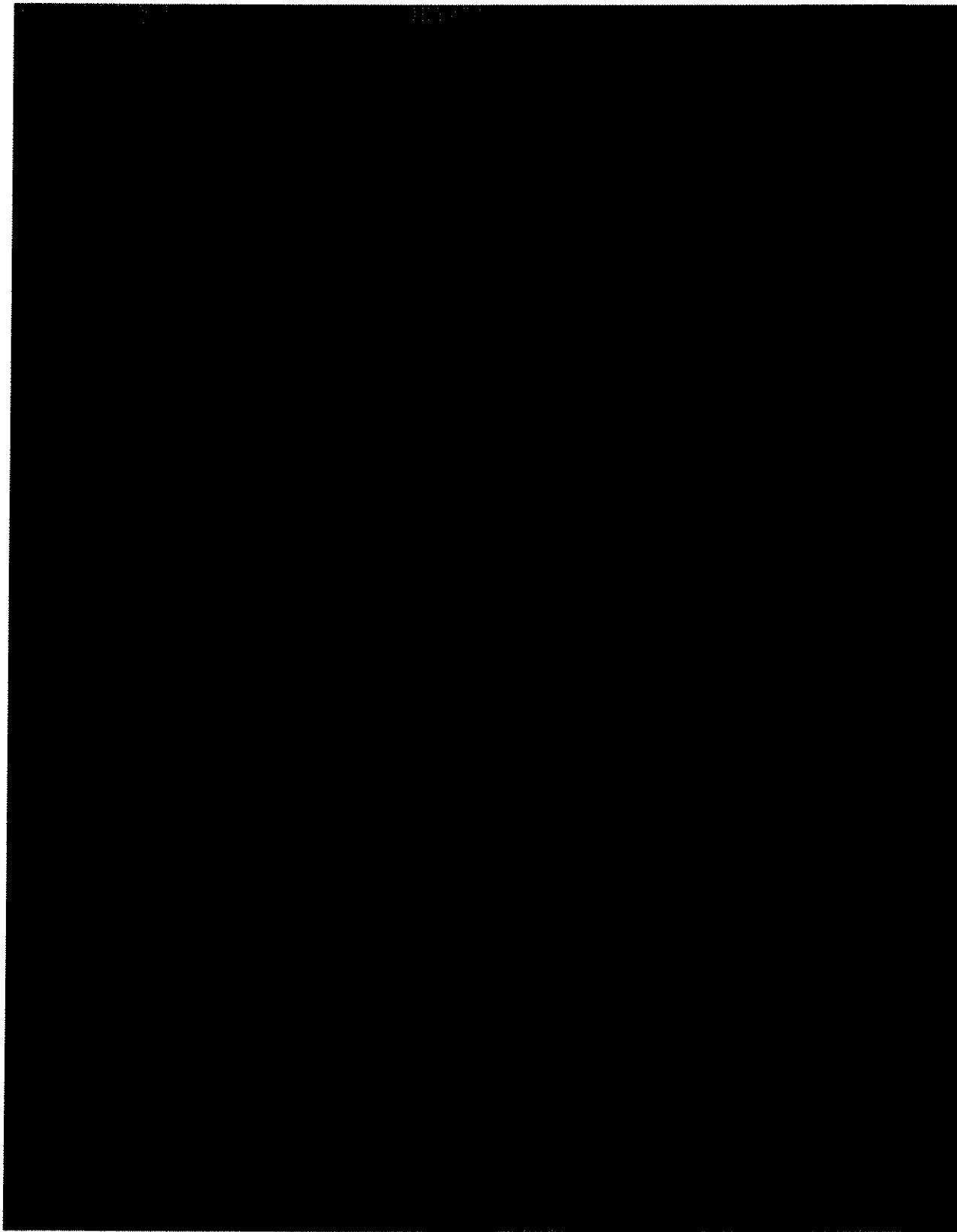
Tesla is already subject to this NESHAP and will continue to comply with these requirements for equipment associated with the proposed project.

5 BACT Analysis











6 California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) requires a comprehensive evaluation of the environmental impacts of projects undertaken or approved by state and local agencies in California. Projects may trigger CEQA if they require discretionary approval, but are commonly considered exempt from CEQA if they are ministerial in nature, and will comply with applicable general plans and local ordinances.

[REDACTED] None of these permits require variances and are considered ministerial under CEQA. Since all other permits required by this project are ministerial (including the air permit), no CEQA review is required.

The following list indicates what permits the NPS Project requires and which agency administers each permit program:

- [REDACTED] the City of Fremont Planning Department
- [REDACTED] the City of Fremont Building Department
- [REDACTED] the City of Fremont Fire Department
- [REDACTED] the City of Fremont Fire Department
- [REDACTED] the Union Sanitary District of Fremont (possible)
- [REDACTED] the Union Sanitary District

The attached form Appendix H provides additional information requested by BAAQMD regarding the applicability of CEQA. As seen on this form, the project does not have the potential to cause a significant impact in any of the listed categories.

Tables

Microcracks

Table 1
North Paint Shop Daily and Annual VOC Emissions
Tesla Motors, Inc.
Fremont, CA

[REDACTED]	
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Page 1

Table 2
North Paint Shop Daily Combustion Emissions
Tesla Motors, Inc.
Fremont, CA

Criteria Pollutant Emissions (pounds/day)					
CO	NOx	PM10/PM2.5	SOx	VOC ²	
30.03	25.53	2.72	0.54	1.97	
30.03	25.53	2.72	0.54	1.97	
29.83	25.36	2.70	0.53	1.95	
29.83	25.36	2.70	0.53	1.95	
5.83	4.96	0.53	0.10	0.38	
5.83	4.96	0.53	0.10	0.38	
33.40	28.39	3.02	0.60	2.19	
33.40	28.39	3.02	0.60	2.19	
25.29	21.50	2.29	0.45	1.66	
25.29	21.50	2.29	0.45	1.66	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
130.94	32.74	1.22	0.24	0.88	
130.94	32.74	1.22	0.24	0.88	
510.66	276.93	24.95	4.92	18.05	

Table 3
North Paint Shop Annual Combustion Emissions
Tesla Motors, Inc.
Fremont, CA

Criteria Pollutant Emissions (tons/year)							GHG Emissions (tonnes/year)			
CO	NOx	PM10/PM2.5	SOx	VOC ²	CO2	CH4	N2O			
3.29	2.79	0.30	0.06	0.22	4,232	0.08	0.01			
3.17	2.70	0.29	0.06	0.21	4,086	0.08	0.01			
2.89	2.45	0.26	0.05	0.19	3,716	0.07	0.01			
2.89	2.45	0.26	0.05	0.19	3,716	0.07	0.01			
0.78	0.66	0.07	0.01	0.05	998	0.02	0.00			
0.78	0.66	0.07	0.01	0.05	998	0.02	0.00			
2.96	2.52	0.27	0.05	0.19	3,814	0.07	0.01			
3.31	2.81	0.30	0.06	0.22	4,260	0.08	0.01			
2.88	2.45	0.26	0.05	0.19	3,708	0.07	0.01			
2.88	2.45	0.26	0.05	0.19	3,708	0.07	0.01			
23.90	5.97	0.22	0.04	0.16	3,168	0.06	0.01			
23.90	5.97	0.22	0.04	0.16	3,168	0.06	0.01			
73.61	33.89	2.78	0.55	2.01	39,573	0.75	0.07			

Table 4
North Paint Shop Emissions of Toxic Air Contaminants
Tesla Motors, Inc.
Fremont, CA

	Toxic Air Contaminant Emissions ¹								
	2-Butoxyethanol	Formaldehyde	Ethylbenzene	Naphthalene	Xylene	Silica, amorphous	1-Methoxy-2-propanol	Isopropyl alcohol	2-Ethylhexanol
lbs/year	13,973	158	107	1,831		9	10,010	7,702	17,136
lbs/hour	5.6	0.1	0.0	0.7	0.0		4.0	3.1	6.9
Chronic Threshold (lbs/year)	--	18	43	3.2	27,000	--	270,000	270,000	--
Acute Threshold (lbs/hour)	31	0.1	--	--	48	--	--	7.1	--

Notes:
1. See Appendix B for speciation profiles.

Key:
Bold Italics - exceeds screening threshold

Table 5
EPA RACT/BACT/LAER Clearinghouse Search Results
Tesla Motors, Inc.
Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

Facility	Location	Date	Process Name	BACT
SUBARU OF INDIANA AUTOMOTIVE, INC.	TIPPECANOE County, IN	5/19/2014	ENTIRE PAINT COATING LINE SYSTEM "C"	BACT-PSD has no requirements
			ELECTRODEPOSITION (ED)	BACT-PSD has no requirements, although there is a paint VOC content restriction in units of lb VOC/gal paint
			INTERMEDIATE COATING * LINE - OPTION A	BACT-PSD has no requirements, although there is a paint VOC content restriction in units of lb VOC/gal paint
			TOPCOAT COATING LINE - OPTION A	Thermal oxidizer, 95% Destruction, minimum capture efficiency of 18%
			INTERMEDIATE/TOPCOAT - OPTION B (WET ON WET SYSTEM)	Thermal oxidizer, 95% Destruction, minimum capture efficiency of 18%
			PLASTIC BUMPER COATING LINE	BACT-PSD has no requirements, although there is a paint VOC content restriction in units of lb VOC/gal paint, as well as best practice requirements
			PURGE SOLVENT RECOVERY	BACT-PSD has no requirements beyond best practices
GENERAL MOTORS LLC, LANSING DELTA TOWNSHIP	Eaton County, MI	5/9/2014	EU-SEALERS AND ADHESIVES	Low emitting material
KENTUCKY TRUCK PLANT (KTP) (Ford)	Jefferson County, KY	2/26/2014	Phosphate E-coat dip coat	RTO for e-coat dip tank evaporation and oven, with control efficiency of 95%
			3-wet Guidecoat paint application	Carbon adsorption followed by RTO, with a destruction efficiency of 95%

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Tesla Motors, Inc.
Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

				3-wet Topcoat application and curing	Carbon Adsorption followed by RTO for paint booth. RTO only for oven, with control efficiency of 95%
VOLKSWAGEN GROUP OF AMERICA, CHATTANOOGA OPERATIONS	Hamilton County, TN	12/3/2012	TOPCOAT (BASECOAT AND CLEARCOAT) OPERATIONS		Carbon Adsorption followed by RTO for paint booth. RTO only for oven, with control efficiency of 95%
SUBARU OF INDIANA AUTOMOTIVE, INC.	TIPPECANOE County, IN	10/4/2012	ED CURING OVEN		Catalytic incinerator, with a destruction efficiency of 63%
			ED LINE		BACT-PSD has no requirements
HYUNDIA MOTOR MANUFACTURING , ALABAMA LLC	Montgomery County, AL	11/8/2010	All coating processes		BACT-PSD has no requirements. System has RTO, Venturi scrubbers
VOLKSWAGEN GROUP OF AMERICA, CHATTANOOGA OPERATIONS	Hamilton County, TN	10/10/2008	E-COATING OPERATIONS		Thermal oxidizer, 95% Destruction
			TOPCOAT (BASECOAT AND CLEARCOAT) OPERATIONS		Waterborne basecoats, thermal oxidizer with destruction efficiency of 95%
			MISC SURFACE COATING OPERATIONS		Only non-VOC materials in pretreatment operations and waxing lines; 1.5 lb/gal VOC content limit in underbody coatings
HYUNDAI MOTOR	Montgomery County, AL	3/17/2008	AUTOMOBILE ASSEMBLY PLANT		Rocker panel primer booth. Based on 50% transfer efficiency, 95% destruction efficiency, 91% capture efficiency

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Tesla Motors, Inc.
Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

KENWORTH TRUCK CO.	Ross County, OH	1/29/2008	ROBOTIC CAB PAINT BOOTHS, LINE 1	Thermal oxidizer, with a destruction efficiency of 93%
			ROBOTIC CAB PAINT BOOTHS, LINE 2	Thermal oxidizer
			MANUAL SPOT PRIME BOOTH, LINES 1 AND 2	Paint arrestor
			DRYING OVENS AND FLASH TUNNES FOR CAB BOOTHS	BACT-PSD has no requirements
KIA MOTORS MANUFACTURING GEORGIA	Troup County, GA	10/27/2008	E-COAT TANK AND CURING	RTO controlling emissions from oven, with a destruction efficiency of 95%
			GUIDECOAT AND TOPCOAT PAINTING	RTO controls guidecoat oven and clearcoat booths, is not directly connected to basecoat booths
			ROCKER PANEL PRIMING	RTO
			MISCELLANEOUS VOC SOURCES (includes cleanup solvent, gasoline and other VOC storage, and parts/degreasing/cold cleaners)	Work practice standards and compliance with nonattainment RACT rules

Table 5
EPA RACT/BACT/LAER Clearinghouse Search Results
Tesla Motors, Inc.
Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

HONDA MANUFACTURING OF ALABAMA	TALLADEGA County, AL	5/17/2007	MOTOR VEHICLE ASSEMBLY PLANT LINE #1	BACT-PSD has no requirements. Notes say E-Coat oven emissions directed to RTO.
			MOTOR VEHICLE ASSEMBLY PLANT LINE #2	BACT-PSD has no requirements. Notes say E-Coat oven emissions directed to RTO.
	Lucas County, OH	5/3/2007	ELECTRODEPOSITION	Thermal oxidizer with a destruction efficiency of 95%. Process is for dip tank, not oven.
			ELECTROSTATIC POWDER PRIMER SPRAY BOOTH	Using powder coating
			TOPCOAT BOOTHS (2) FOR BASECOAT AND CLEARCOAT	Thermal oxidizer, with a destruction efficiency of 93%
			AUTOMOTIVE OFF-LINE REPAIR BOOTH	BACT-PSD has no requirements
HYUNDAI MOTOR MANUFACTURING ALABAMA, LLC	Montgomery County, AL	3/14/2005	PAINTING BOOTH, ROCKER PANEL PRIMER (RP-1)	RTO (95% DESTRUCTION) AND AIRLESS GUNS
DAIMLER CHRYSLER CORPORATION ASSEMBLY PLANT	Lucas County, OH	8/23/2006	CLEAN-SHOP REPAIR	RESTRICTION ON VOC CONTENT: 4.8 LBS VOC/GAL, EXCLUDING WATER AND EXEMPT SOLVENTS
			MISCELLANEOUS SOLVENTS	BACT-PSD has no requirements
			AUTOMOTIVE OFF-LINE REPAIR W/INFRARED CURING DRYER, SANDING	RESTRICTION ON VOC CONTENT: 4.8 LBS VOC/GAL AS DAILY VOLUME WEIGHTED AVERAGE EXCLUDING H2O AND EXEMPT SOLVENTS
			AUTOMOTIVE OFF-LINE REPAIR BOOTHS (4 UNITS)	RESTRICTION ON VOC CONTENT: 4.8 LBS VOC/GAL AS DAILY VOLUME WEIGHTED AVERAGE EXCLUDING H2O AND EXEMPT SOLVENTS

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Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

DAIMLER CHRYSLER CORPORATION ASSEMBLY PLANT	Lucas County, OH	9/2/2004	ELECTRODEPOSITION	Thermal oxidizer
			ELECTRODEPOSITION OVEN	Thermal oxidizer
			TOUCH UP BOOTH	BACT-PSD has no requirements
			TOPCOAT BOOTHS (TWO) FOR BASECOAT AND CLEARCOAT	Thermal oxidizer, 95% Destruction
			TOPCOAT DRYING OVEN	BACT-PSD has no requirements
			TOPCOAT PURGE AND LINE CLEANING	BACT-PSD has no requirements

Table 5
EPA RACT/BACT/LAER Clearinghouse Search Results
Tesla Motors, Inc.
Fremont, CA

RBLC Process Code 41.002, Automobiles and Trucks Surface Coating

TOYOTA MOTOR MANUFACTURING KENTUCKY, INCORPORATED	Scott County, KY	7/30/2004	PAINT BOOTHS & OVENS, EXTERIOR MOLDED, A/B	VOC CARRY OVER TO OVEN CATALYTIC INCINERATORS FOR EACH BOOTH
			PAINING, BUMPER	WATER BASED COATING, MOST PRIMERS. CARBON CONCENTRATOR WITH THERMAL OXIDIZER FOR BOOTH ZONES WHERE PAINT IS SOLVENTBORNE. CARRY OVER TO OVENS
HYUNDAI MOTOR MANUFACTURING OF ALABAMA, LLC	Montgomery County, AL	3/23/2004	E-COAT OPERATIONS	RTO CONTROLLING OVEN (95%); WATER-BASED E- COAT
			PRIMER SURFACE OPERATIONS	RTO CONTROLLING OVEN (95%); WATER-BASED PRIMER SURFACER
			TOP COAT OPERATIONS	TOP COAT OPERATION; RTO CONTROLLING OVEN & AUTO CLEAR COAT (95%); WATER-BASED BASECOAT/SOLVENT -BASED CLEARCOAT
			MISCELLANEOUS SEALERS & ADHESIVES	RTO, VOC LIMITS IN MATERIALS.
			STORAGE TANKS	SUBMERGED FILL PIPES, STAGE I ON LARGE GASOLINE TANKS.

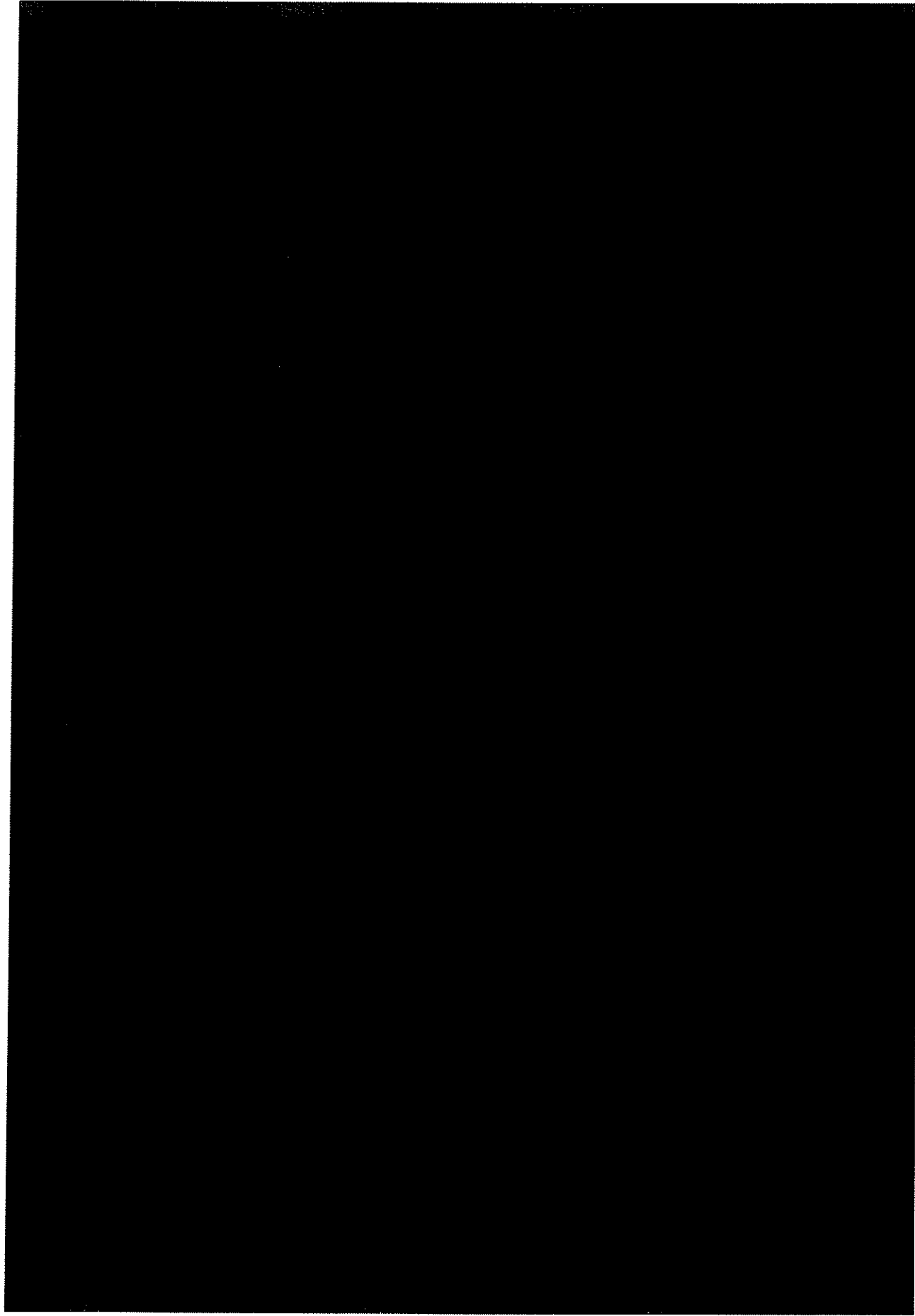
Figures



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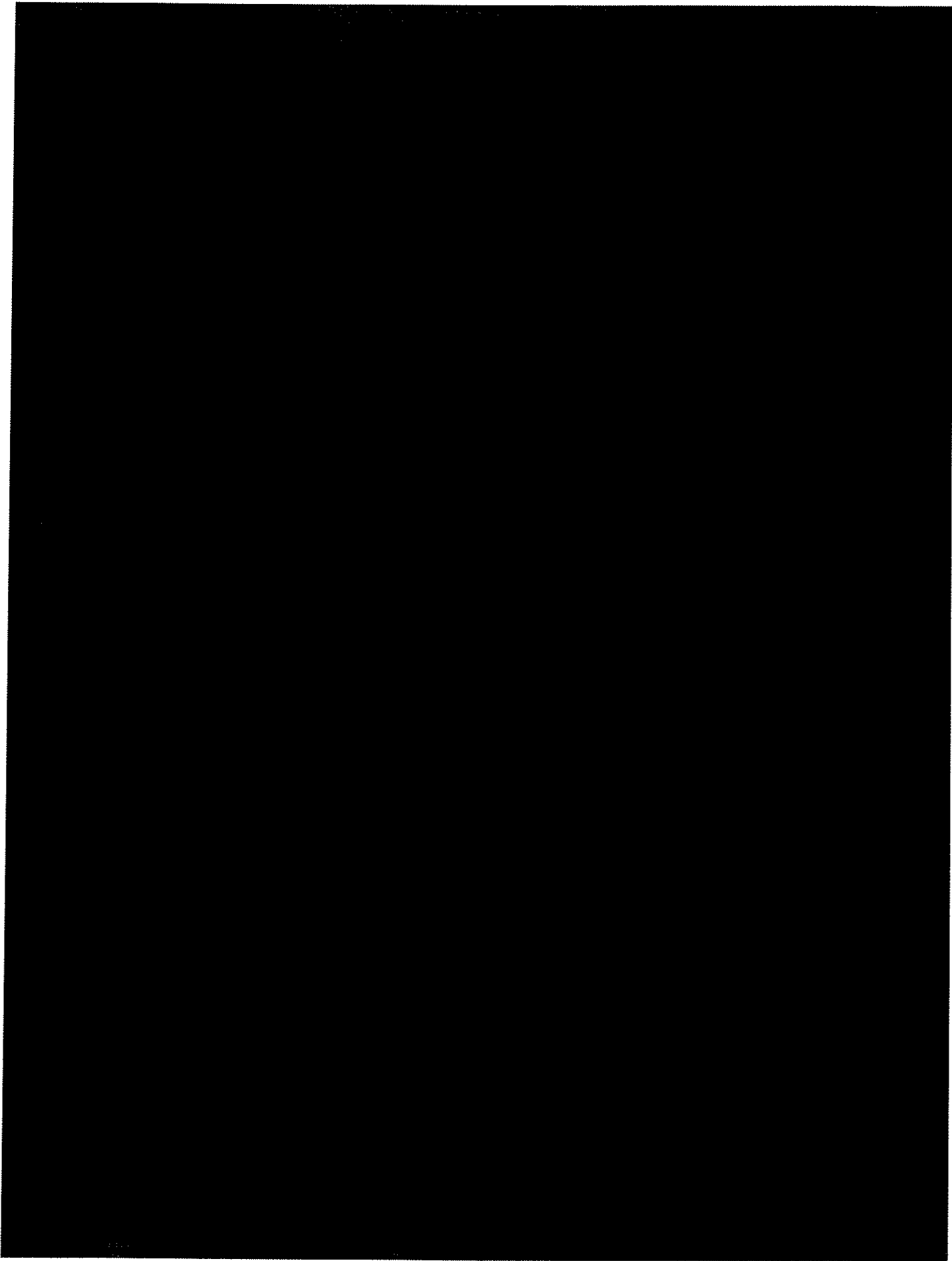
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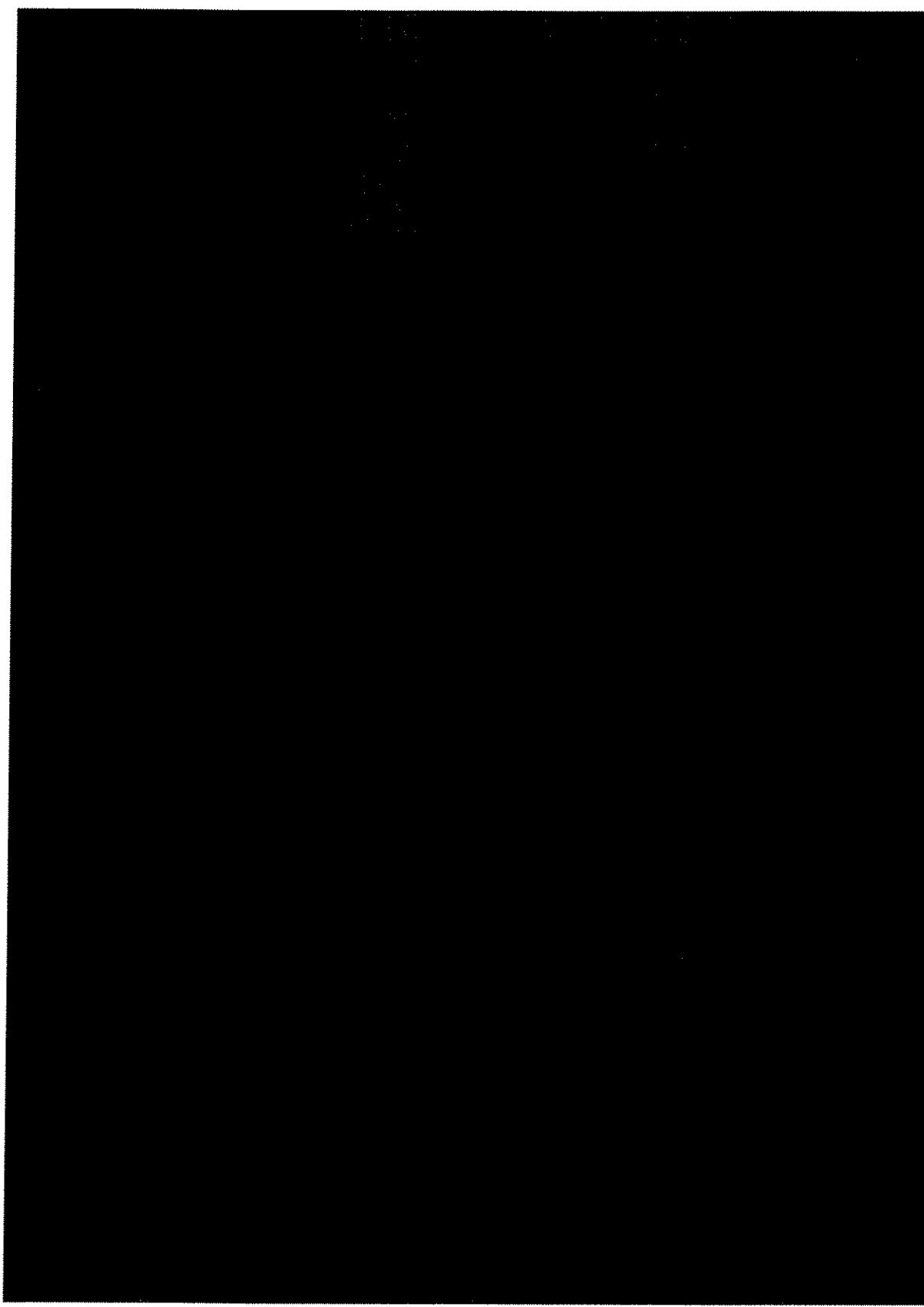
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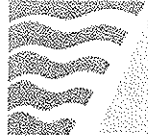
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Tesla Motors, Inc. – Fremont, CA



Tesla Motors, Inc. – Fremont, CA

Appendix A
BAAQMD Application Forms



BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street, San Francisco, CA 94109
Engineering Division (415) 749-4990
www.baaqmd.gov fax (415) 749-5030

Form P-101B
Authority to Construct/
Permit to Operate

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1. Application Information

BAAQMD Plant No. 20459 Company Name Tesla Motors Inc

Equipment/Project Description North Paint Shop

2. Plant Information *If you have not previously been assigned a Plant Number by the District or if you want to update any plant data that you have previously supplied to the District, please complete this section.*

Equipment Location _____

City _____ Zip Code _____

Mail Address _____

City _____ State _____ Zip Code _____

Plant Contact _____ Title _____

Telephone () _____ Fax () _____ Email _____

NAICS (North American Industry Classification System) see www.census.gov/epod/naics02/naico602.htm _____

3. Proximity to a School (K-12)

The sources in this permit application (check one) ☐ Are ☒ Are not within 1,000 ft of the outer boundary of the nearest school.

4. Application Contact Information *All correspondence from the District regarding this application will be sent to the plant contact unless you wish to designate a different contact for this application.*

Application Contact Celine Granger Title EH&S Engineer

Mail Address 45500 Fremont Blvd

City Fremont State CA Zip Code 94538

Telephone (510)-249-3532 Fax () _____ Email cgranger@teslamotors.com

5. Additional Information *The following additional information is required for all permit applications and should be included with your submittal. Failure to provide this information may delay the review of your application. Please indicate that each item has been addressed by checking the box. Contact the Engineering Division if you need assistance.*

- ☐ If a new Plant, a local street map showing the location of your business
- ☒ A facility map, drawn roughly to scale, that locates the equipment and its emission points
- ☒ Completed data form(s) and a pollutant flow diagram for each piece of equipment.
(See www.baaqmd.gov/Forms/Engineering.aspx)
- ☒ Project/equipment description, manufacturer's data
- ☒ Discussion and/or calculations of the emissions of air pollutants from the equipment

6. Trade Secrets *Under the California Public Records Act, all information in your permit application will be considered a matter of public record and may be disclosed to a third party. If you wish to keep certain items separate as specified in Regulation 2, Rule 1, Section 202.7, please complete the following steps.*

- ☒ Each page containing trade secret information must be labeled "trade secret" with the trade secret information clearly marked.
- ☒ A second copy, with trade secret information blanked out, marked "public copy" must be provided.
- ☒ For each item asserted to be trade secret, you must provide a statement which provides the basis for your claim.

7. **Small Business Certification** You are entitled to a reduced permit fee if you qualify as a small business as defined in Regulation 3. In order to qualify, you must certify that your business meets all of the following criteria:

- ☐ The business does not employ more than 10 persons and its gross annual income does not exceed \$750,000.
- ☐ And the business is not an affiliate of a non-small business. (Note: a non-small business employs more than 10 persons and/or its gross income exceeds \$750,000.)

8. **Green Business Certification** You are entitled to a reduced permit fee if you qualify as a green business as defined in Regulation 3. In order to qualify, you must certify that your business meets all of the following criteria:

- ☐ The business has been certified under the Bay Area Green Business Program coordinated by the Association of Bay Area Governments and implemented by participating counties.
- ☐ A copy of the certification is included.

9. **Accelerated Permitting** The Accelerated Permitting Program entitles you to install and operate qualifying sources of air pollution and abatement equipment **without waiting for the District to issue a Permit to Operate**. To participate in this program you must certify that your project will meet all of the following criteria. Please acknowledge each item by checking each box.

- ☐ Uncontrolled emissions of any single pollutant are each less than 10 lb/highest day, or the equipment has been precertified by the BAAQMD.
- ☐ Emissions of toxic compounds do not exceed the trigger levels identified in Table 2-5-1 (see Regulation 2, Rule 5).
- ☐ The source is not a diesel engine.
- ☐ The project is not subject to public notice requirements (the source is either more than 1000 ft. from the nearest school, or the source does not emit any toxic compound in Table 2-5-1).
- ☐ For replacement of abatement equipment, the new equipment must have an equal or greater overall abatement efficiency for all pollutants than the equipment being replaced.
- ☐ For alterations of existing sources, for all pollutants the alteration does not result in an increase in emissions.
- ☐ Payment of applicable fees (the minimum permit fee to install and operate each source). See Regulation 3 or contact the Engineering Division for help in determining your fees.

10. **CEQA** Please answer the following questions pertaining to CEQA (California Environmental Quality Act).

A. Has another public agency prepared, required preparation of, or issued a notice regarding preparation of a California Environmental Quality Act (CEQA) document (initial study, negative declaration, environmental impact report, or other CEQA document) that analyzes impacts of this project or another project of which it is a part or to which it is related? ☐ YES ☒ NO If no, go to section 10B.

Describe the document or notice, preparer, and date of document or expected date of completion:

B. List and describe any other permits or agency approvals required for this project by city, regional, state or federal agencies:

_____ Please see Appendix H.

C. List and describe all other prior or current projects for which either of the following statements is true: (1) the project that is the subject of this application could not be undertaken without the project listed below, (2) the project listed below could not be undertaken without the project that is the subject of this application:

11. **Certification** I hereby certify that all information contained herein is true and correct. (Please sign and date this form)

Celine Granger

EH&S Engineer

12/15/2014

Name of person certifying (print)

Title of person certifying

Signature of person certifying

Date

Send all application materials to the BAAQMD Engineering Division, 939 Ellis Street, San Francisco, CA 94109.

(if unknown, leave blank)

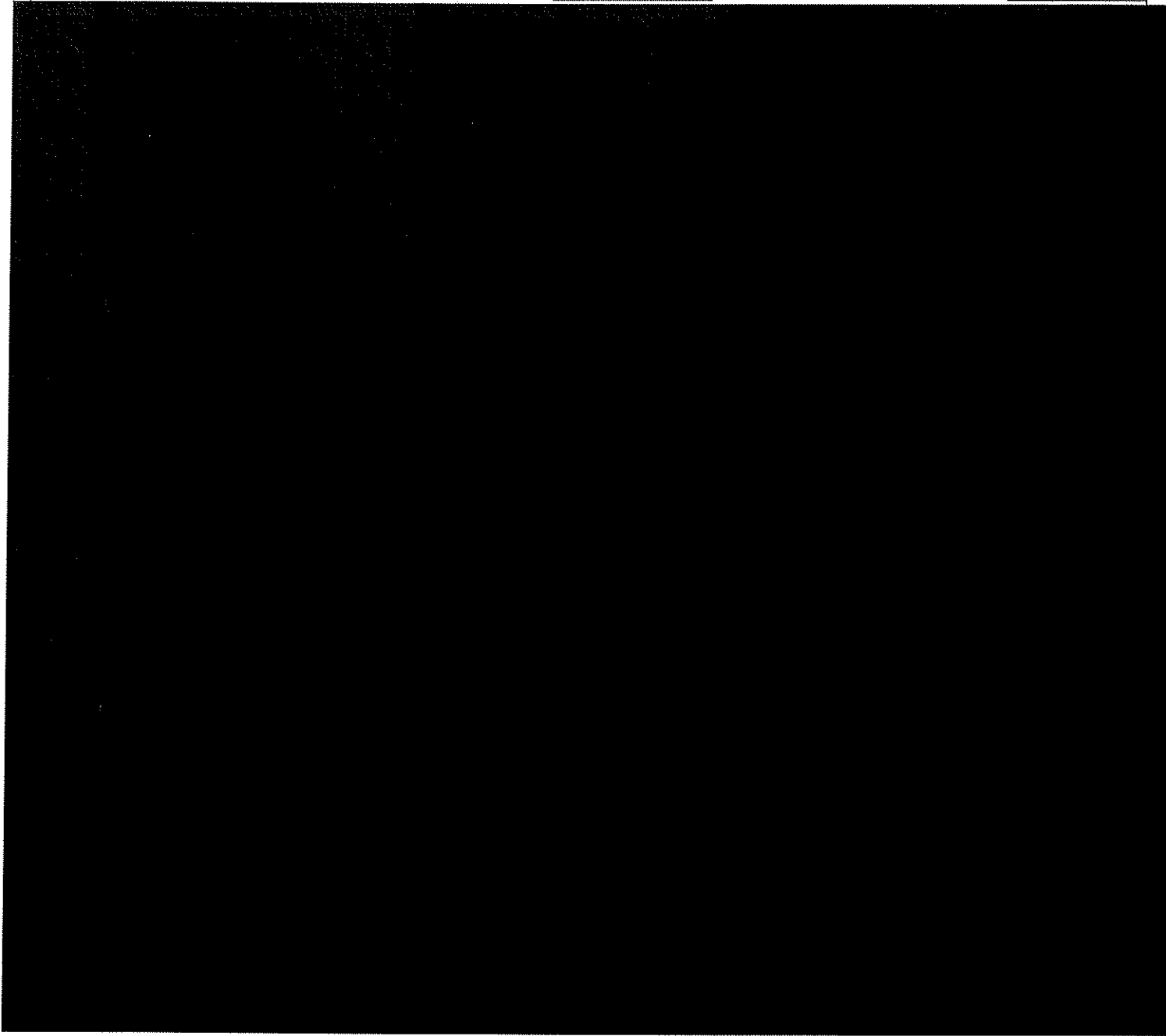
1. Business Name: Tesla Motors Inc.

Plant No: 20459

2. SIC No: 3711

Date of Initial Operation (new): _____

Date of start-up (modification): Upon receipt of ATC



Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22

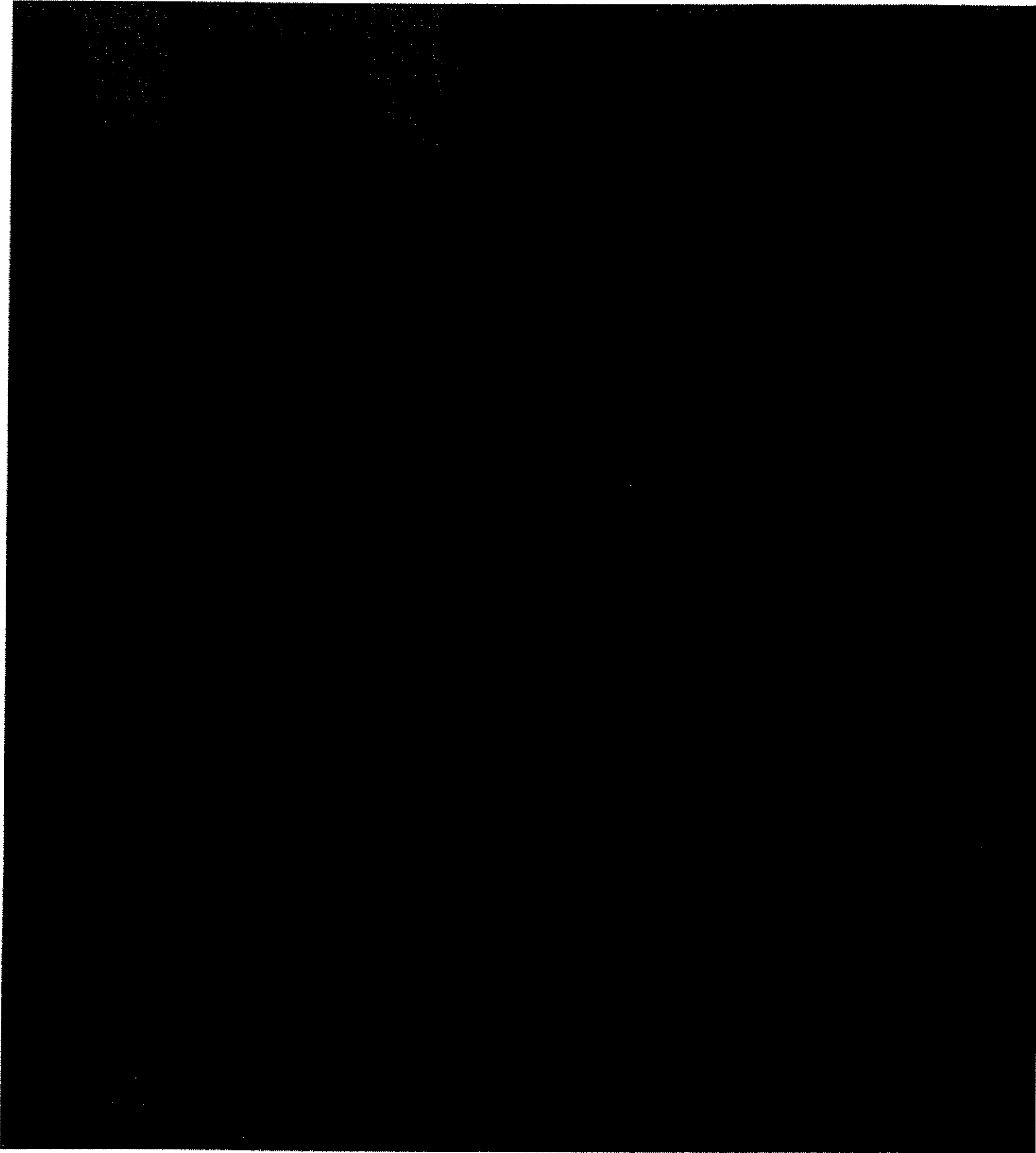
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

Page 1 of 2

For Office Use Only

FormS (revised: 12/05)

Plt #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

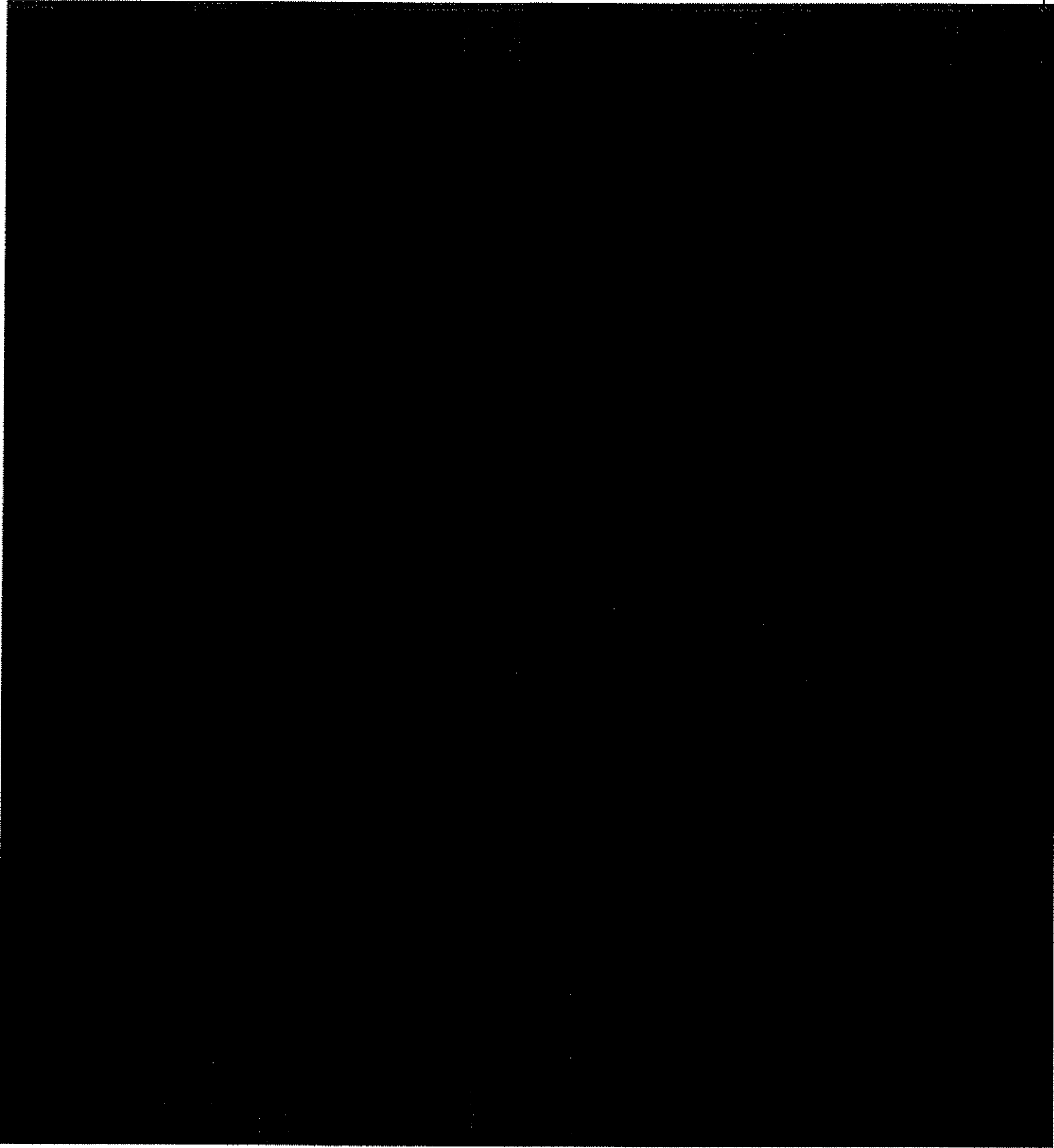
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

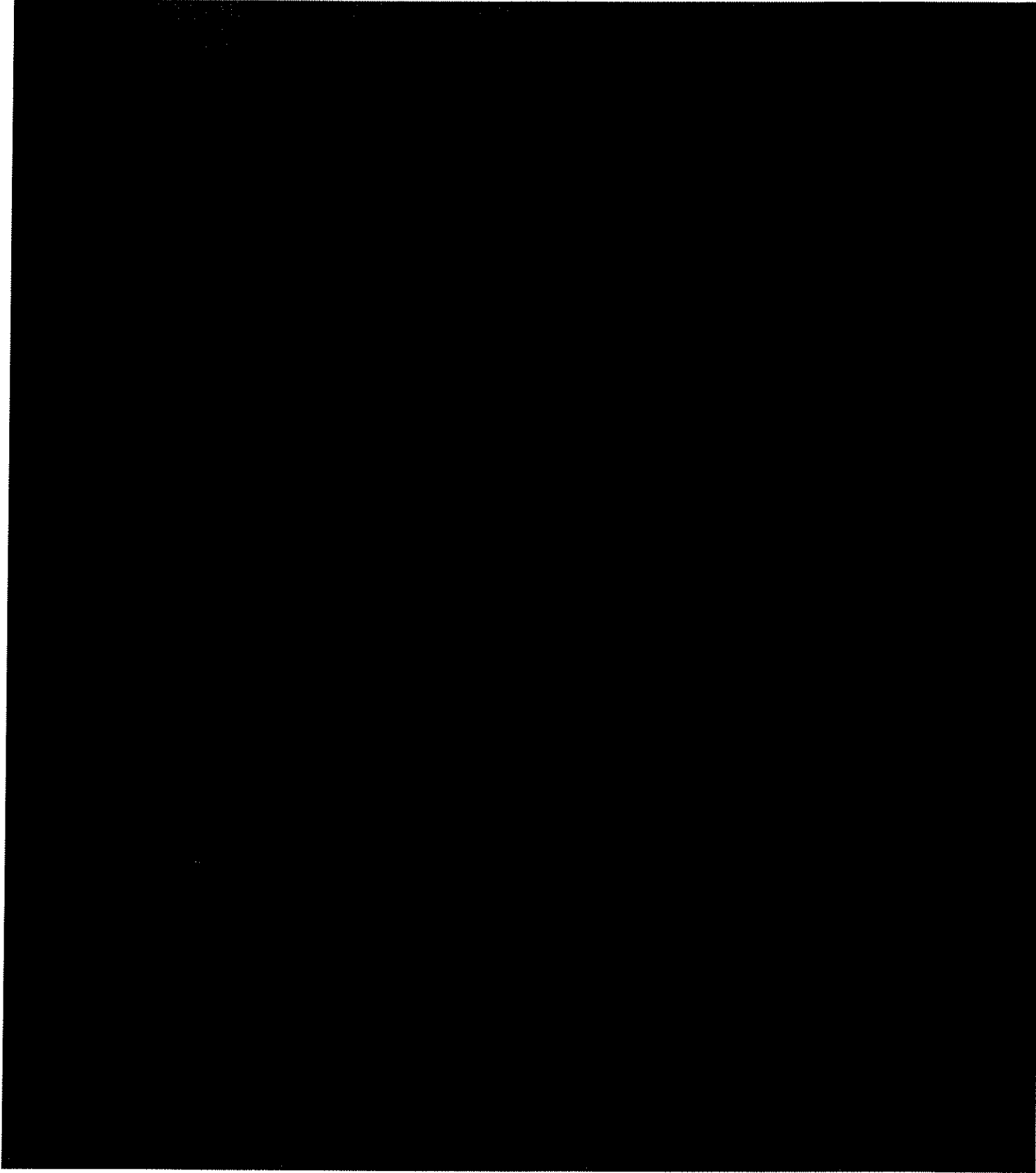
DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification):
ATC





BAY AREA AIR QUALITY MANAGEMENT DISTRICT

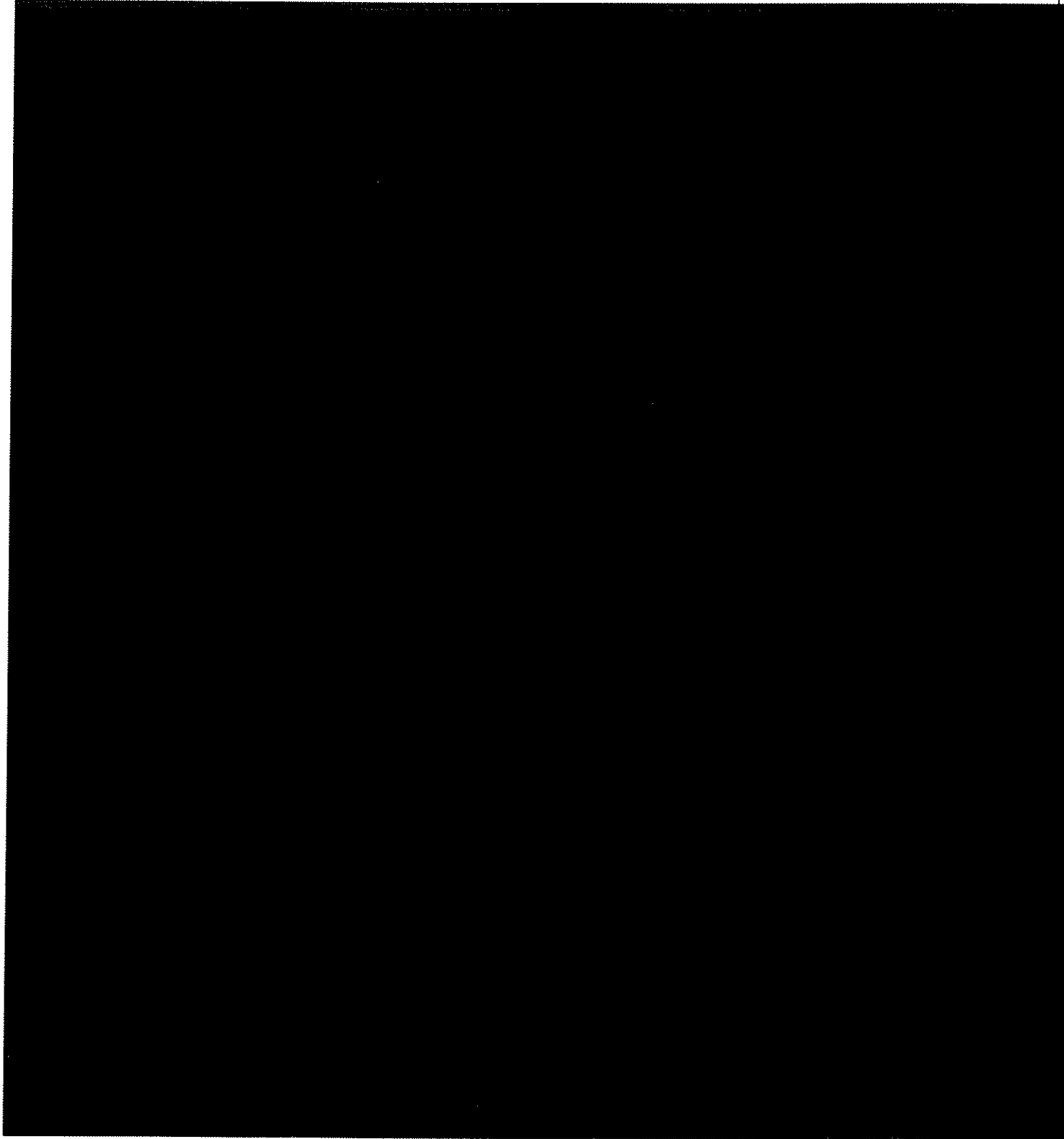
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

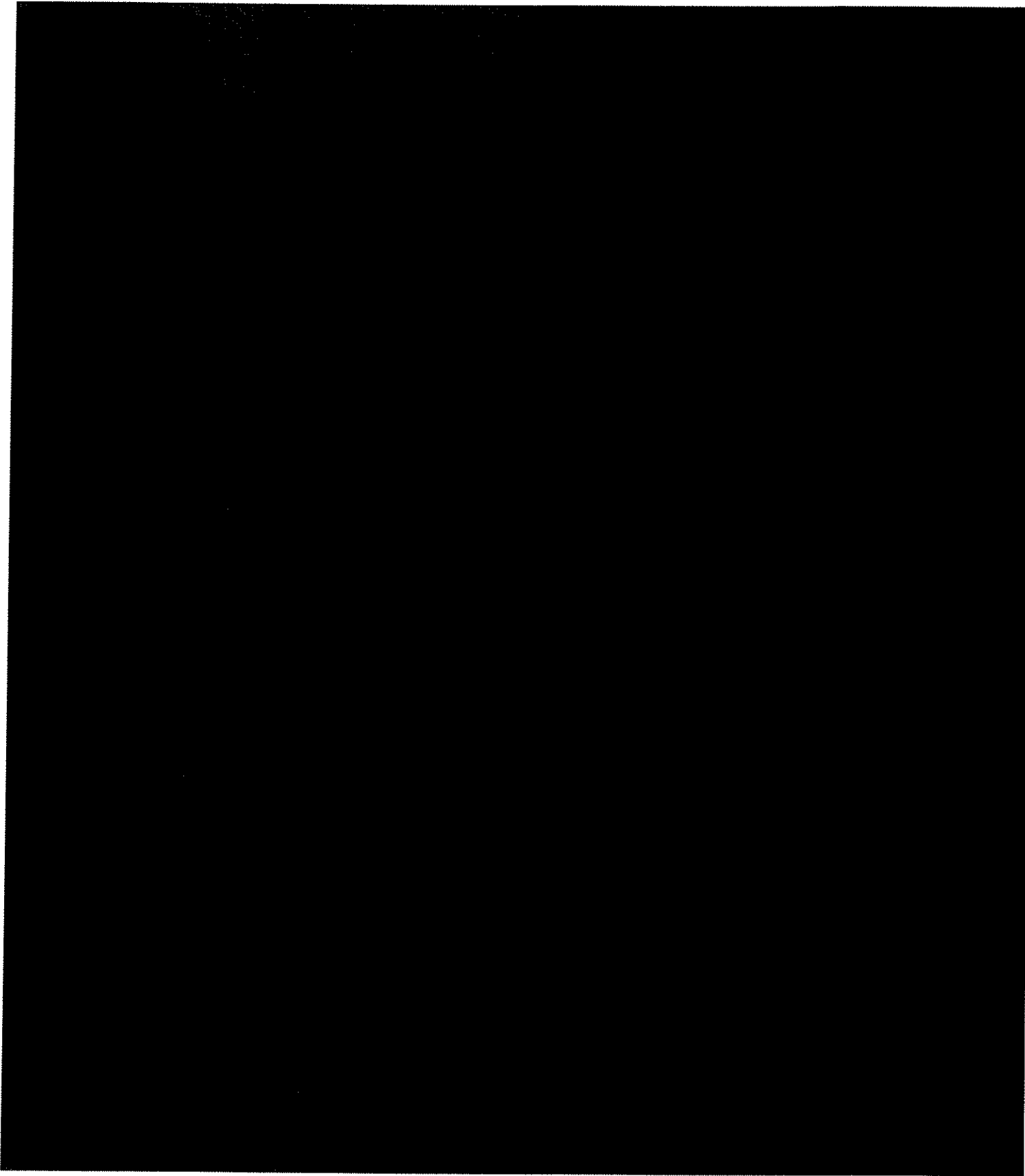
DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification):
ATC





BAY AREA AIR QUALITY MANAGEMENT DISTRICT

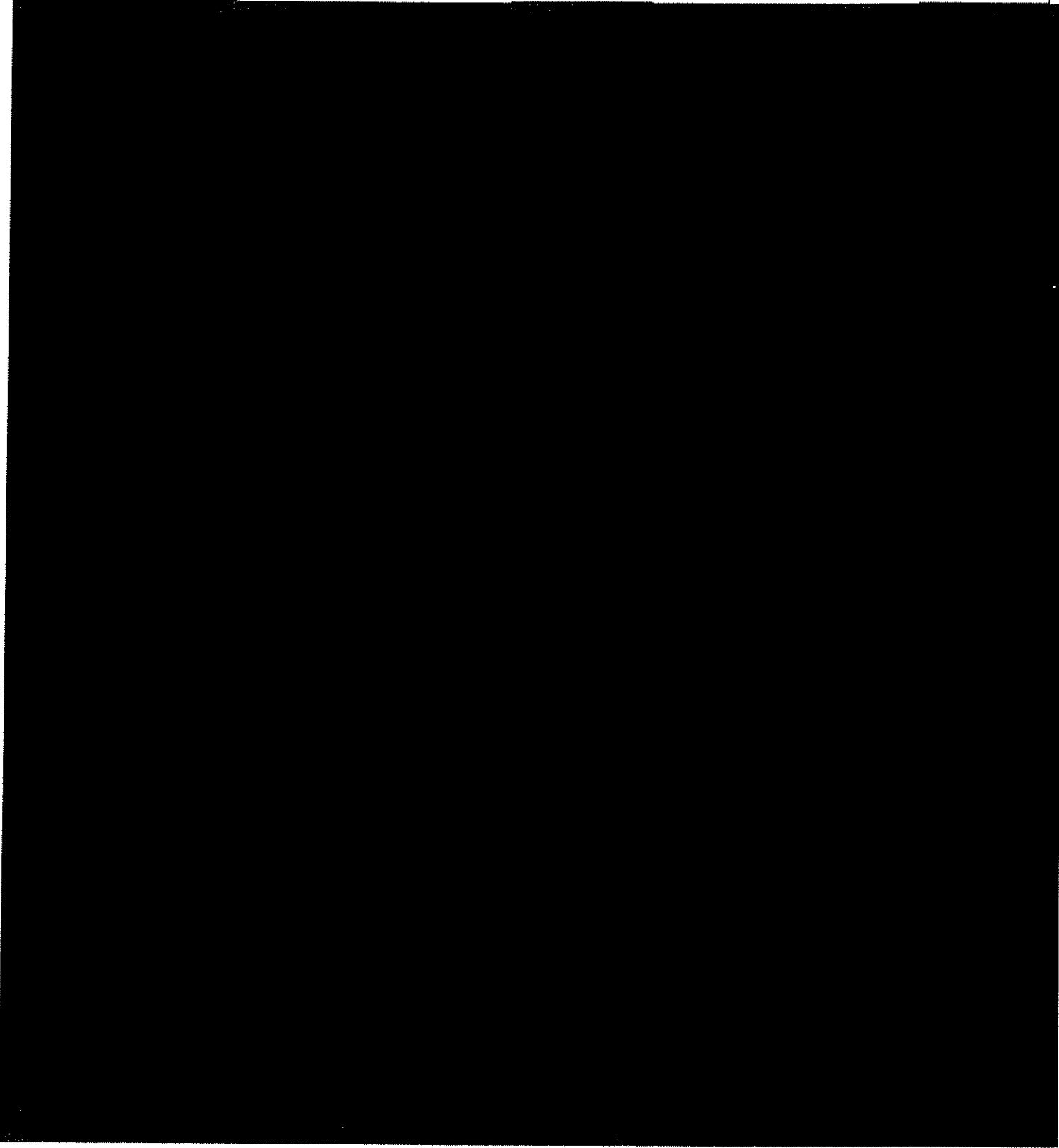
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

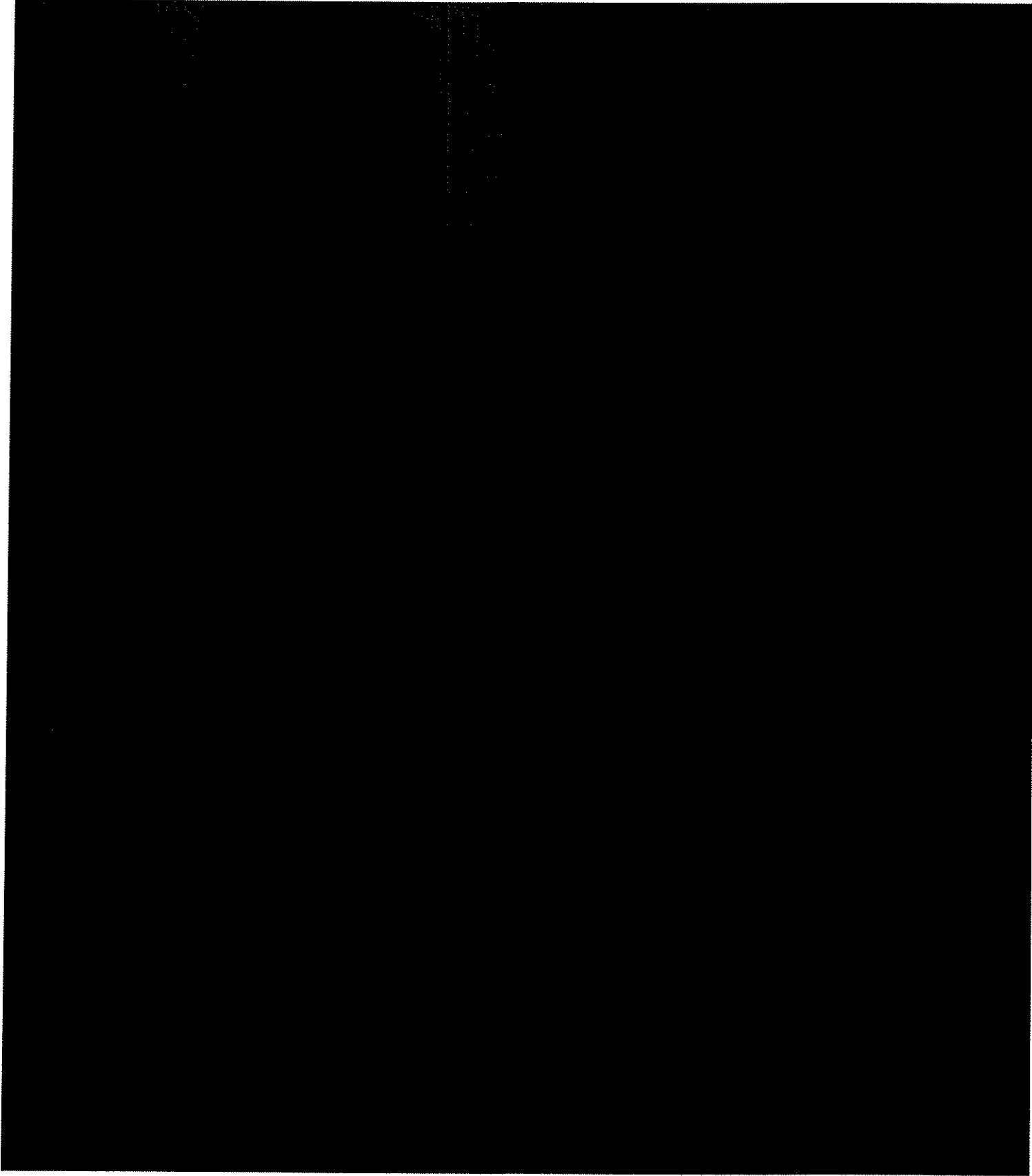
DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification):
ATC



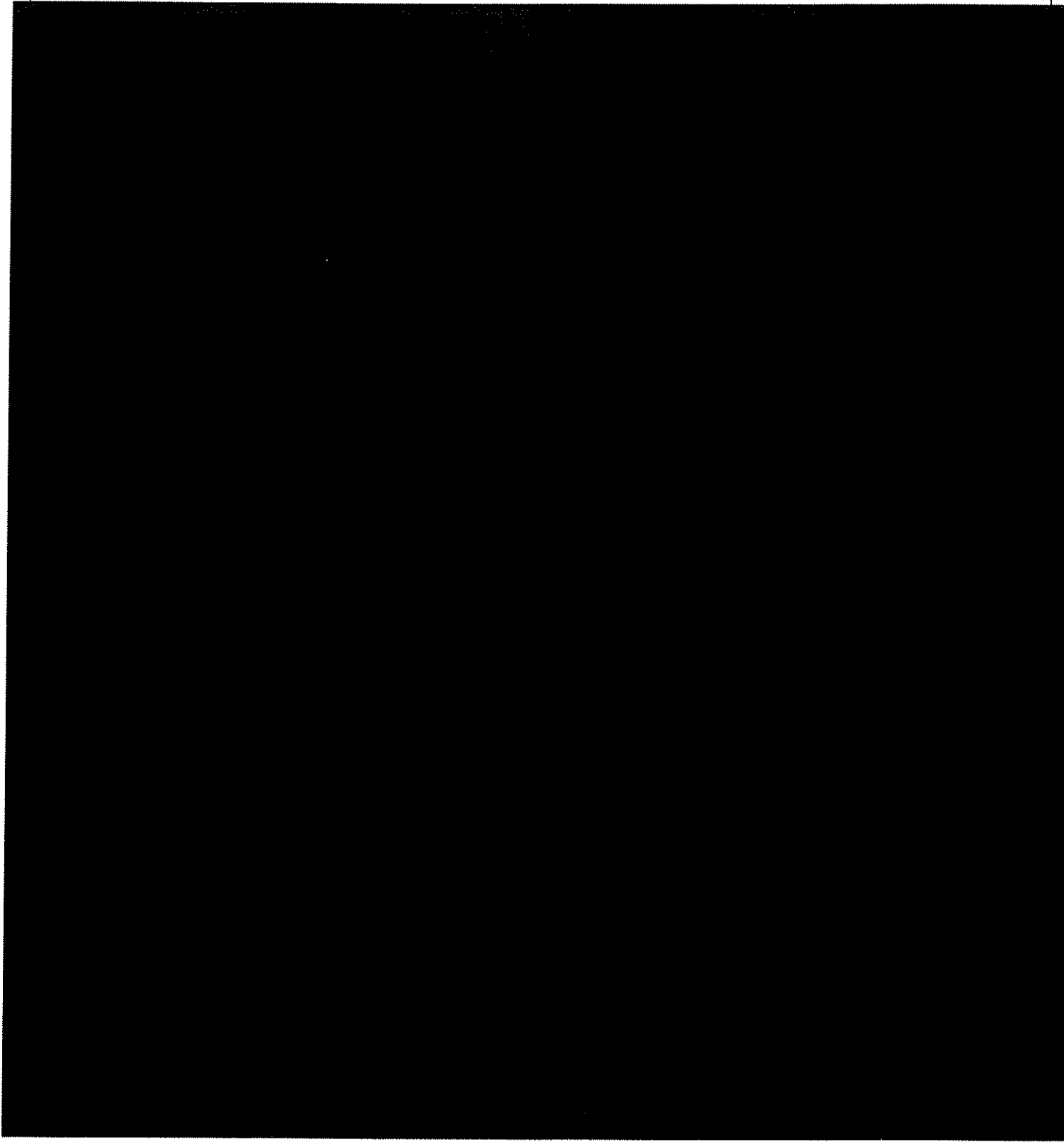


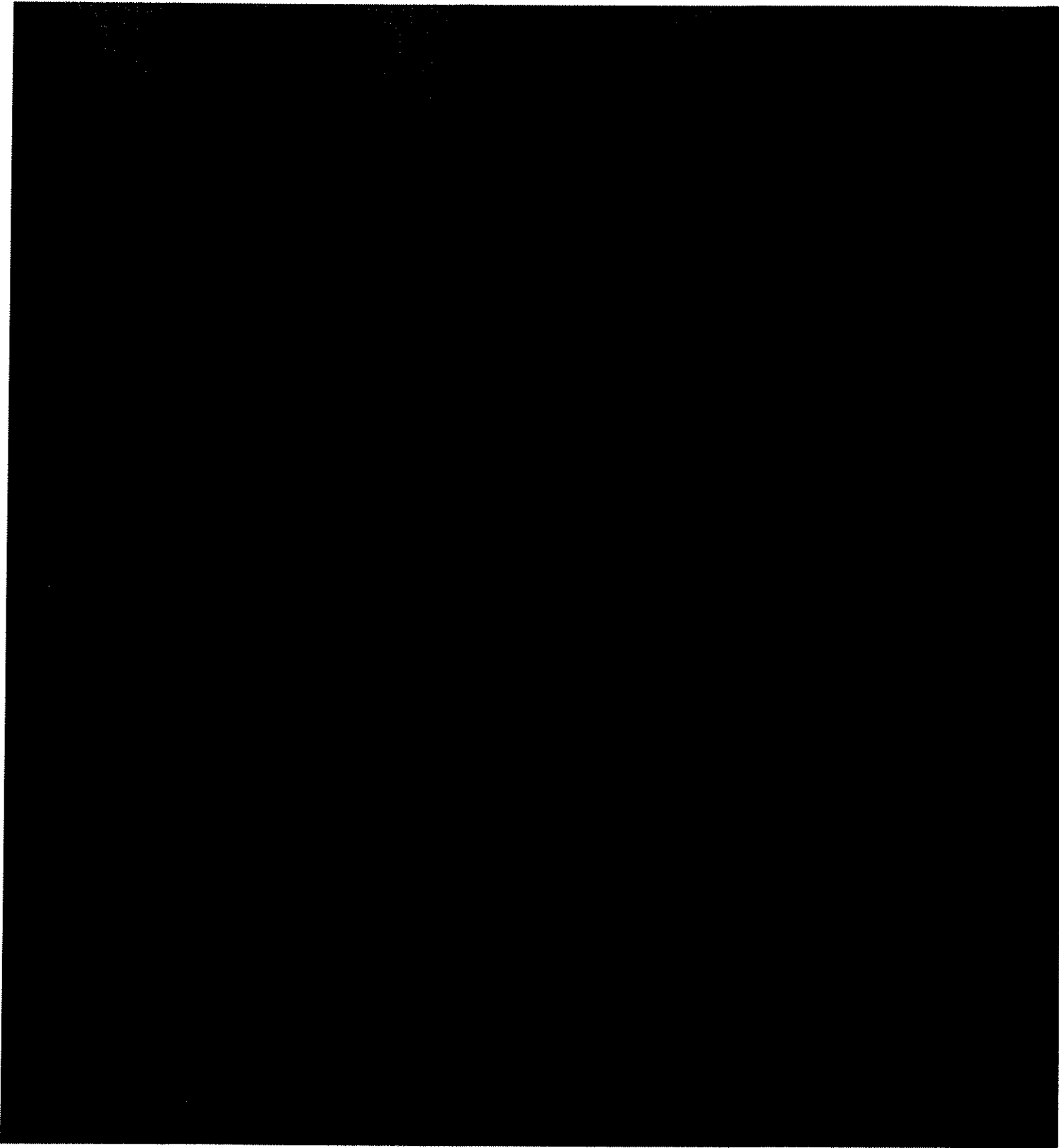
BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

			(if unknown, leave blank)
1. Business Name:	<u>Tesla Motors Inc.</u>	Plant No:	<u>20459</u>
2. SIC No:	<u>3711</u>	Date of Initial Operation (new):	Upon Receipt of ATC





* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

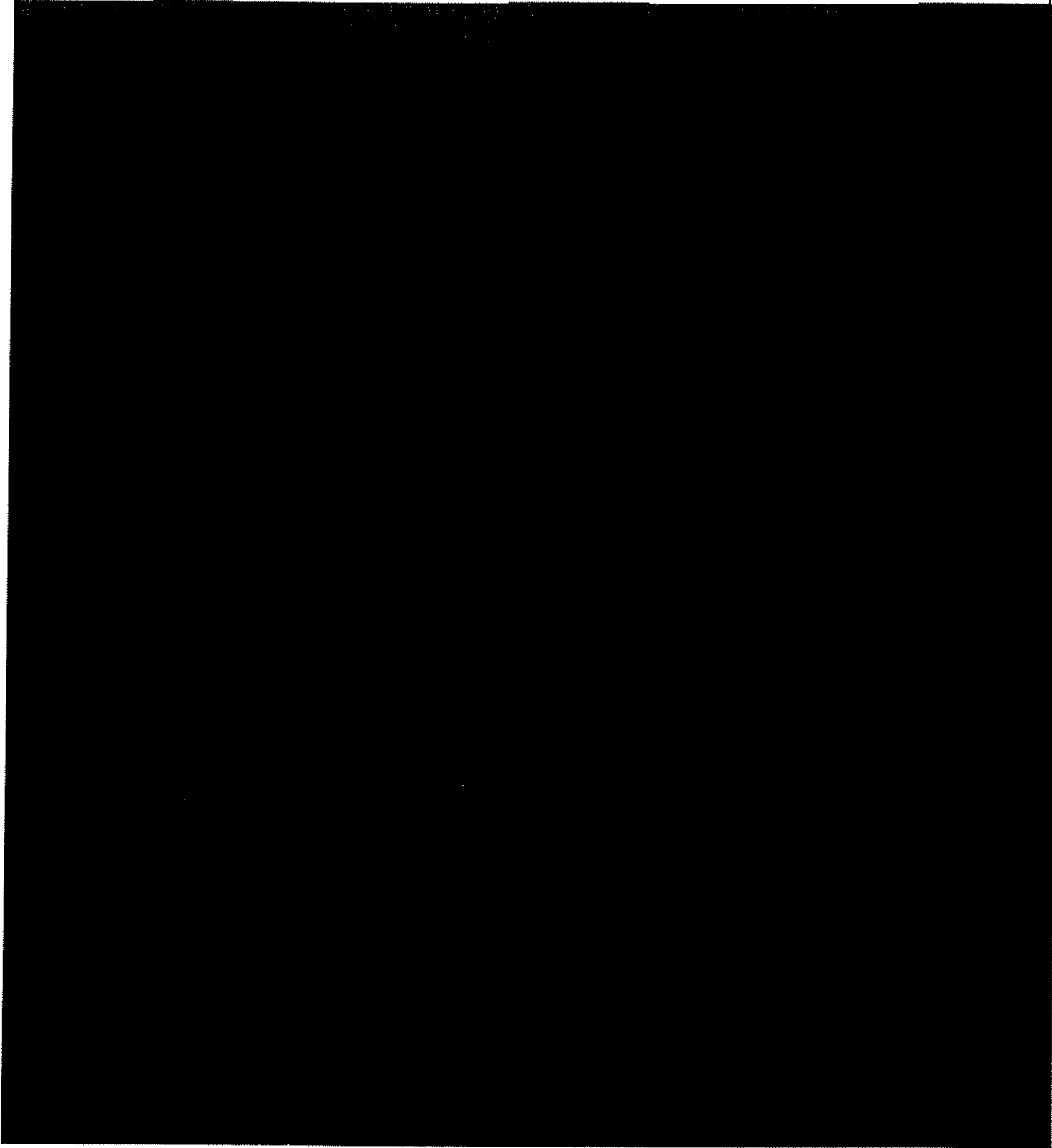
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

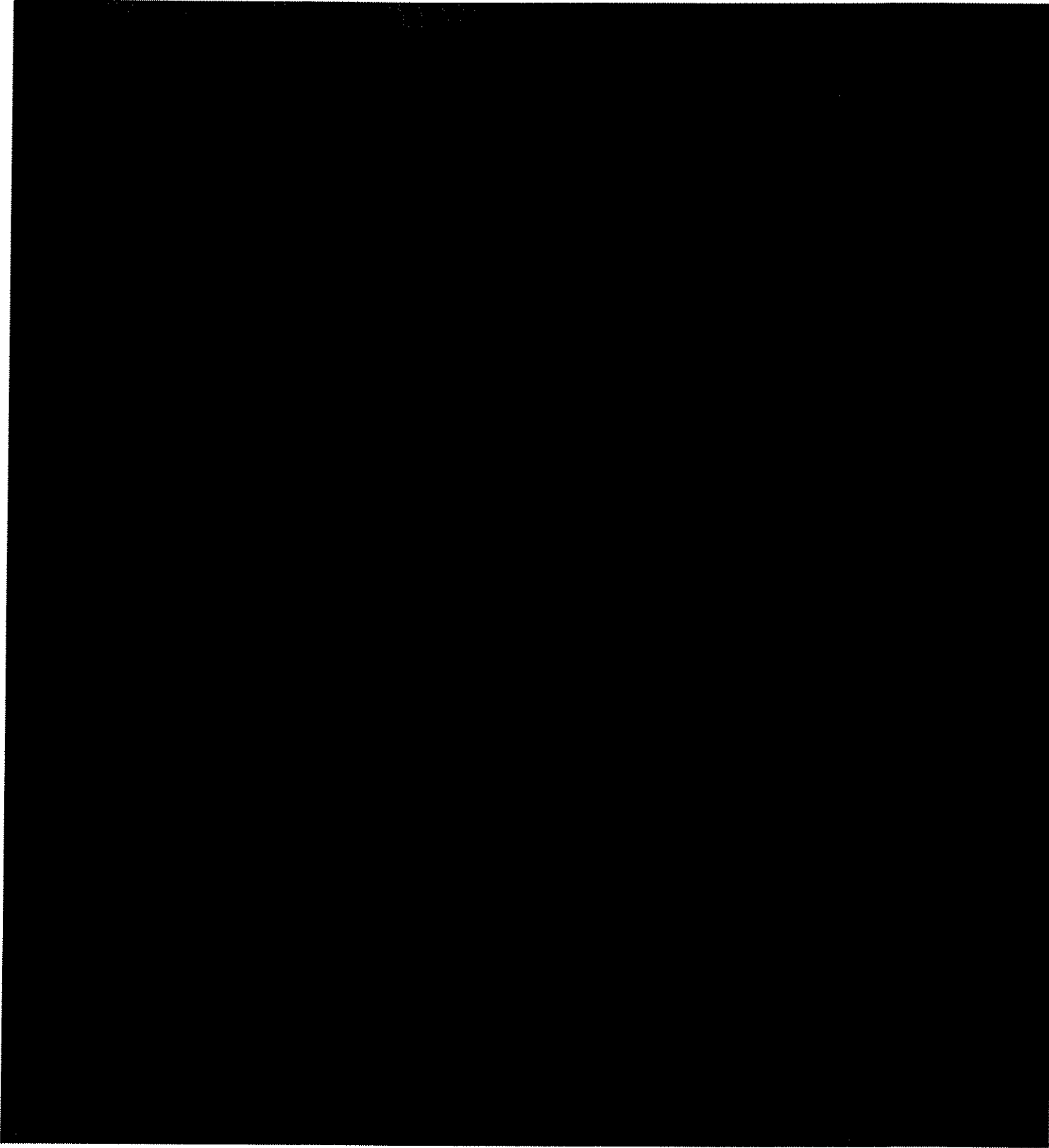
DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification):
ATC





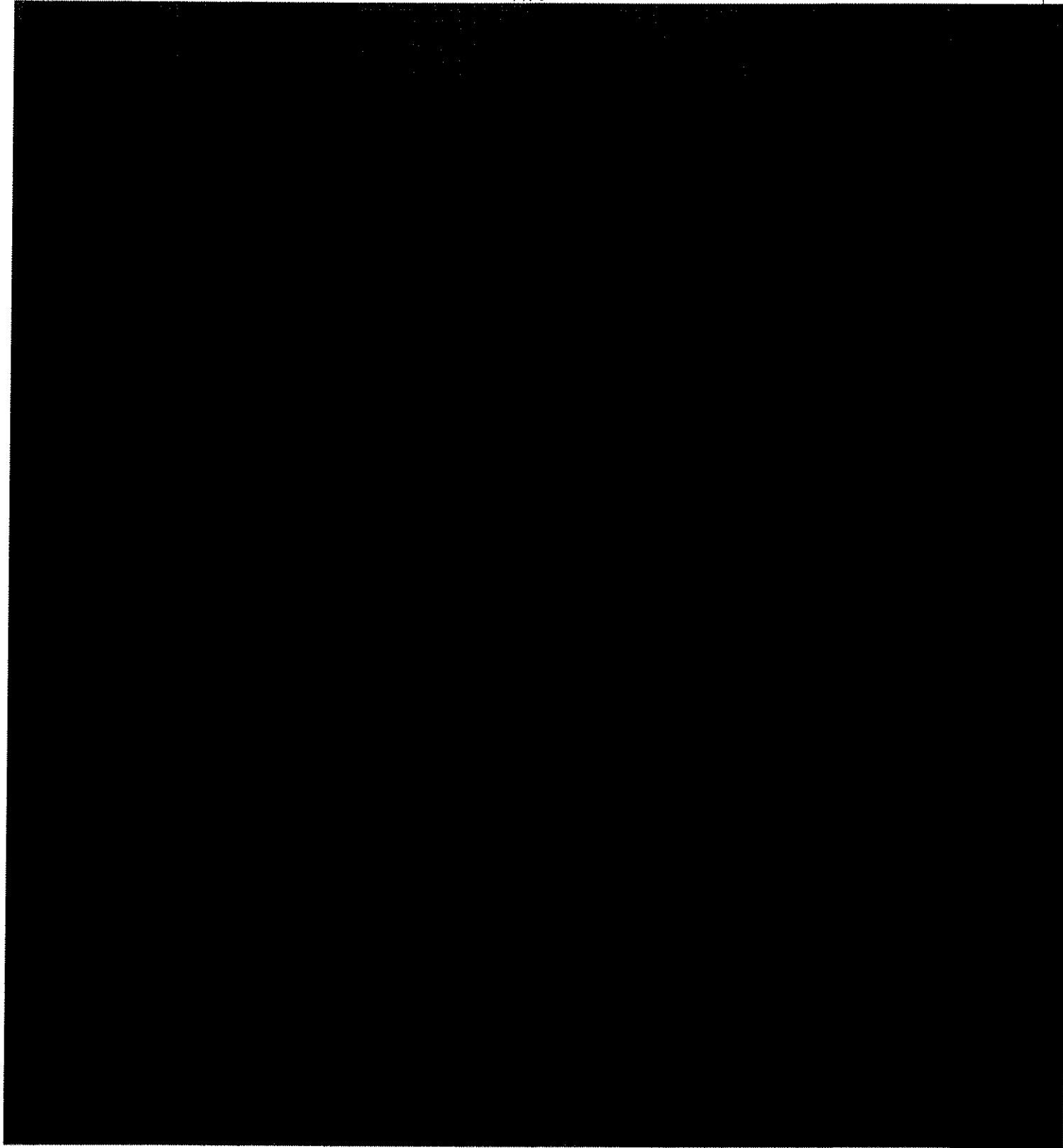
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

1. Business Name: <u>Tesla Motors Inc.</u>		(if unknown, leave blank)	
Plant No: <u>20459</u>			
2. SIC No: <u>3711</u>	Date of Initial Operation (new): <u>Upon receipt of</u>	Date of start-up (modification):	
	<u>ATC</u>		

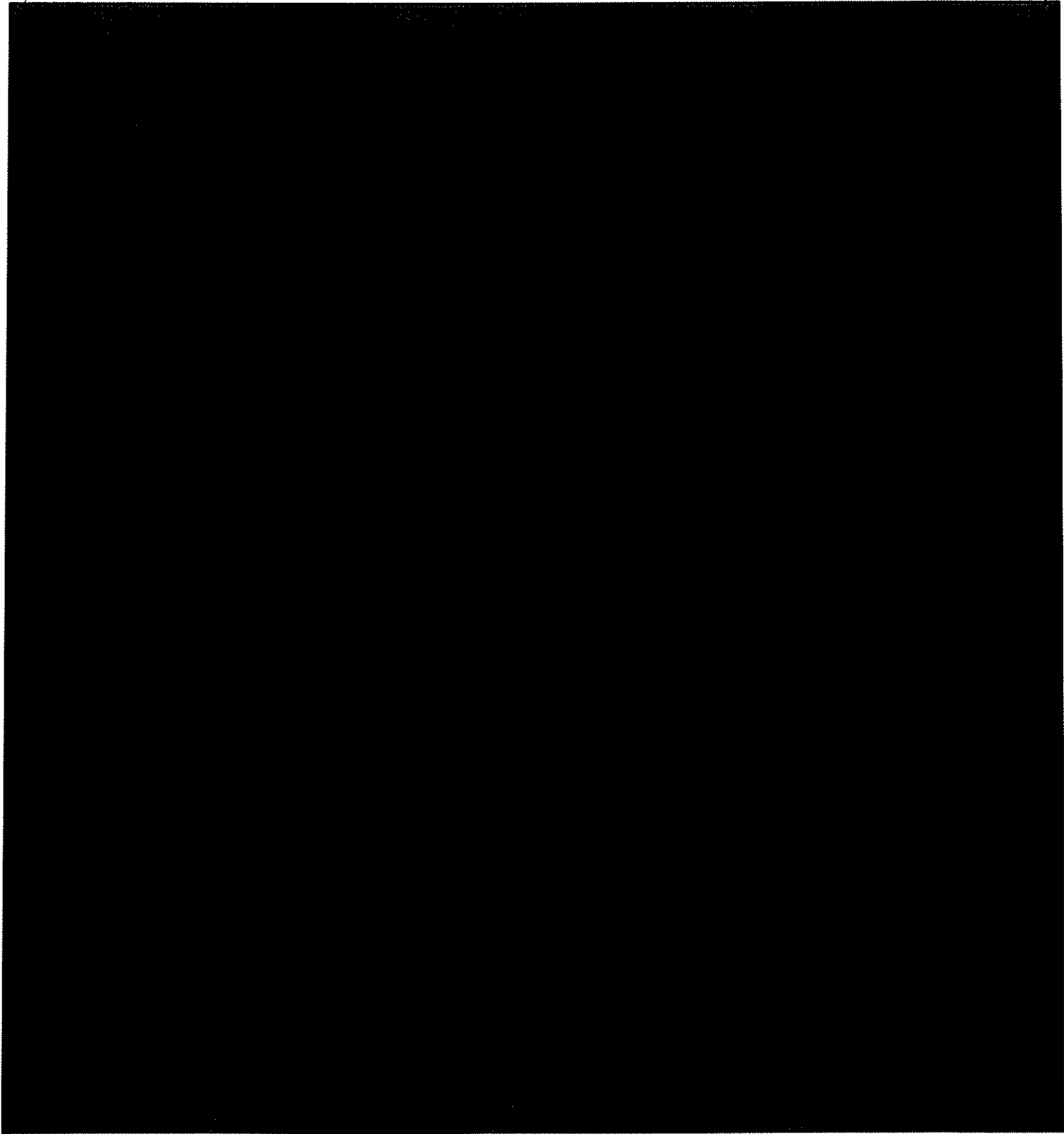


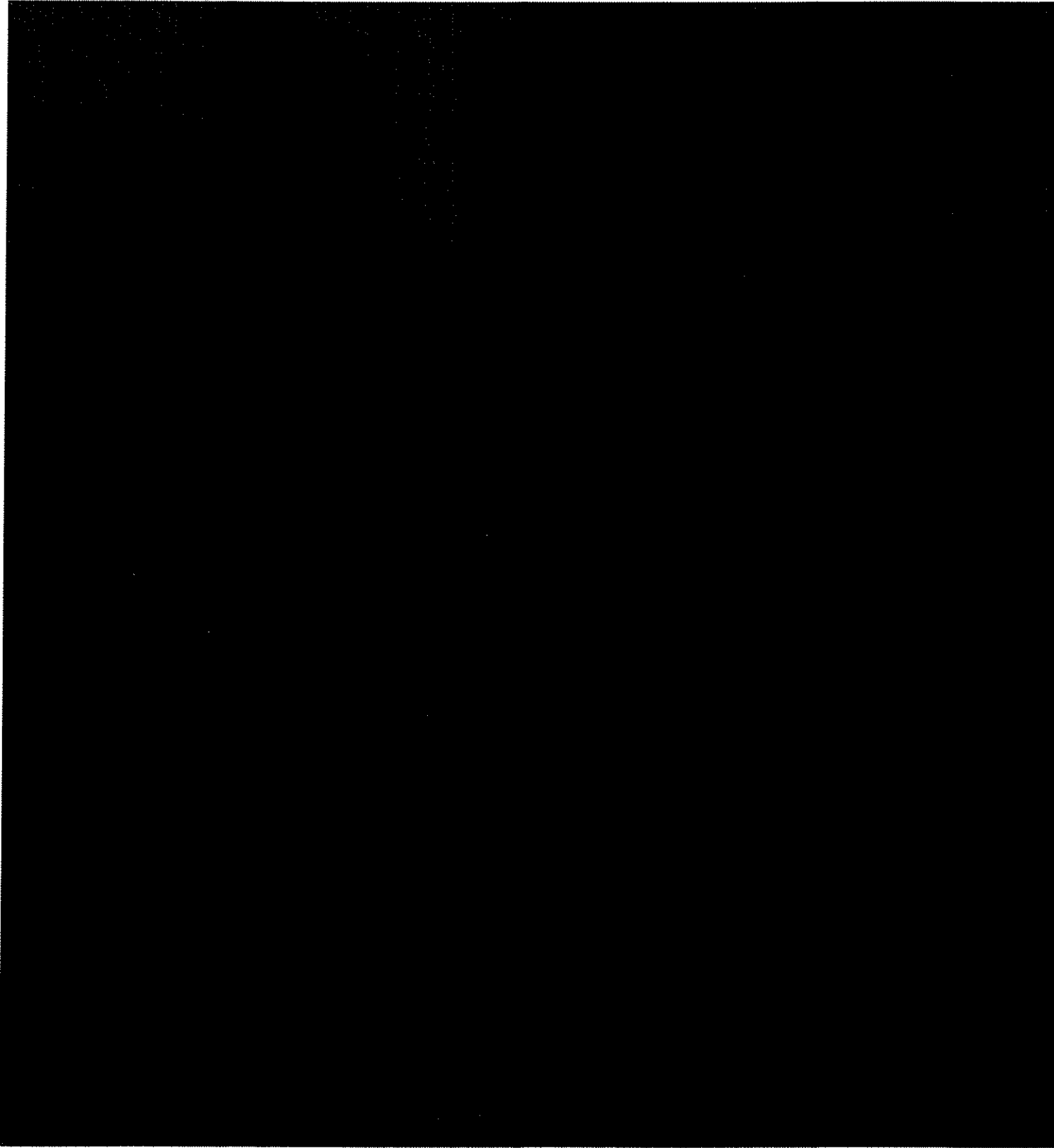
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)			
1. Business Name:	Tesla Motors Inc.		Plant No: 20459
2. SIC No:	3711	Date of Initial Operation (new): Upon receipt of ATC	Date of start-up (modification):





* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

		(If unknown, leave blank)	
1	Company Name: Tesla Motors Inc	Plant No: 20459	Source No. 1108

Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

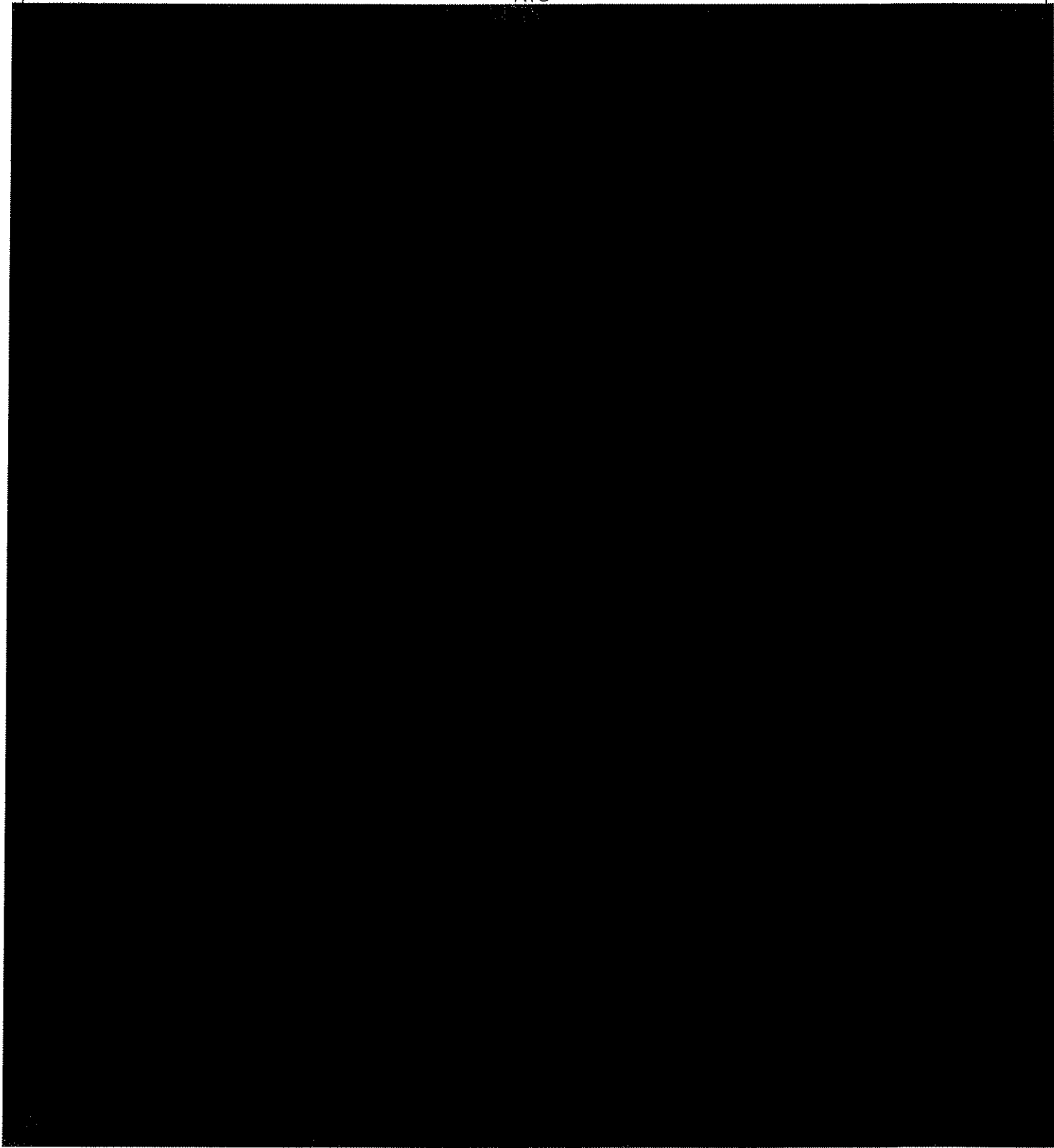
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification):
ATC



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

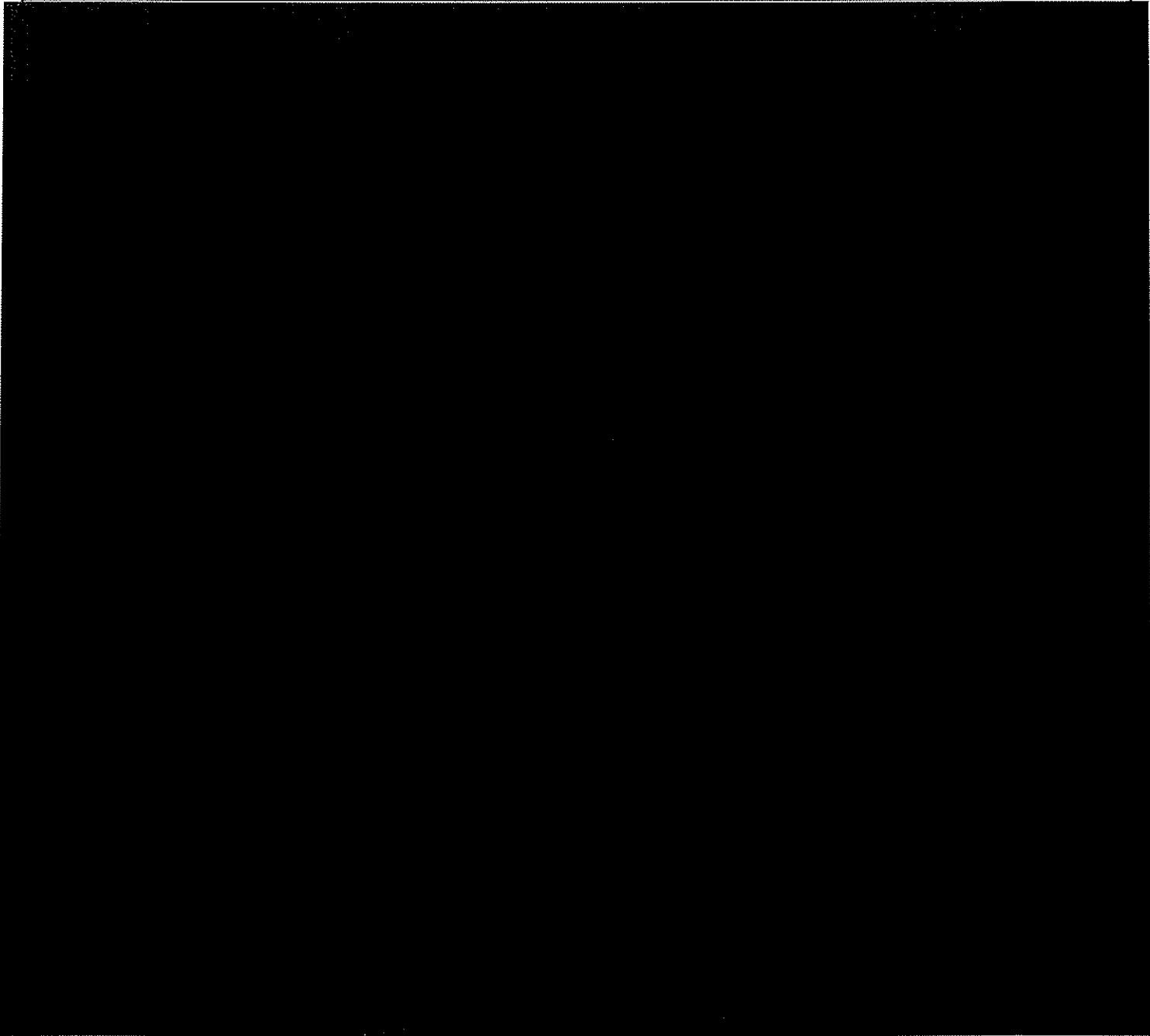
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

		(if unknown, leave blank)	
1. Company Name:	Tesla Motors Inc	Plant No:	20459 Source No. 1109



Person completing this form:	Celine Granger	Date:	12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

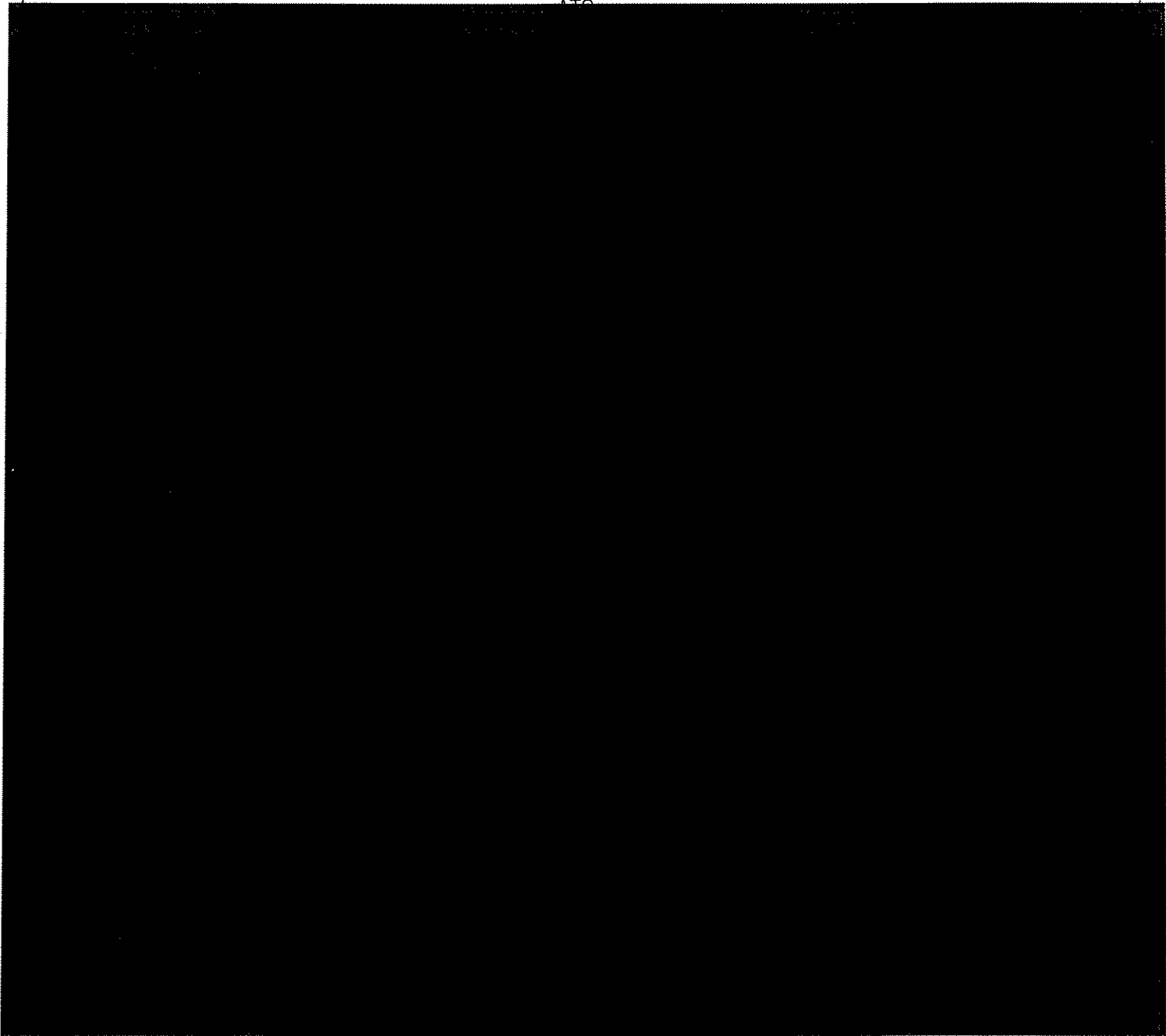
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification): ATC



Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22

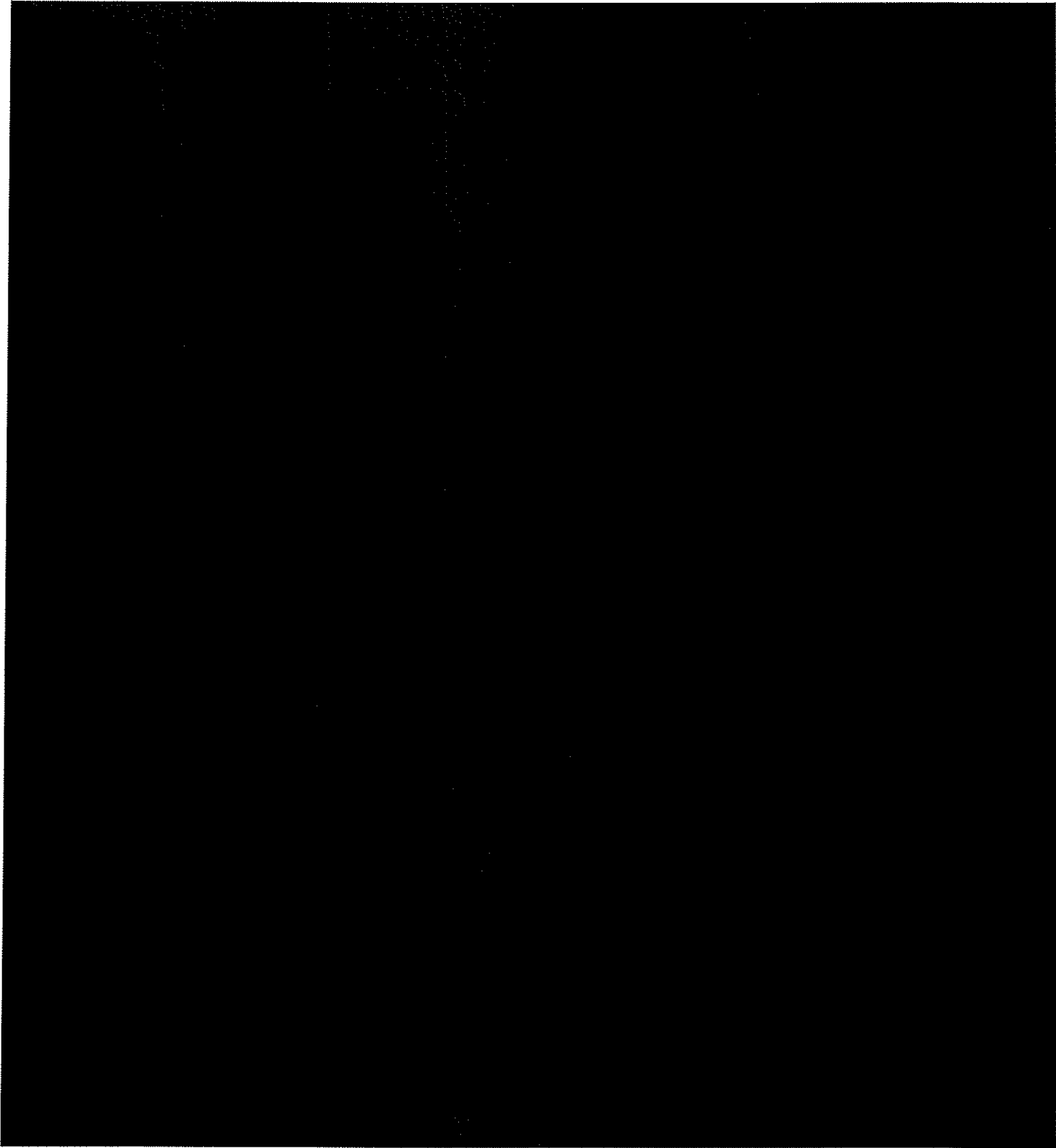
Page 1 of 2

* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

FormS (revised: 12/05)

Pit #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Tesla Motors Inc	Plant No: 20459 Source No. 3009

Person completing this form: Celine Granger	Date: 12/15/2014
---	------------------

FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

Note: * MSCF = thousand standard cubic feet
* m gal = thousand gallons
* therm = 100,000 BTU
** See tables below for Fuel and Basis Codes
*** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
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35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

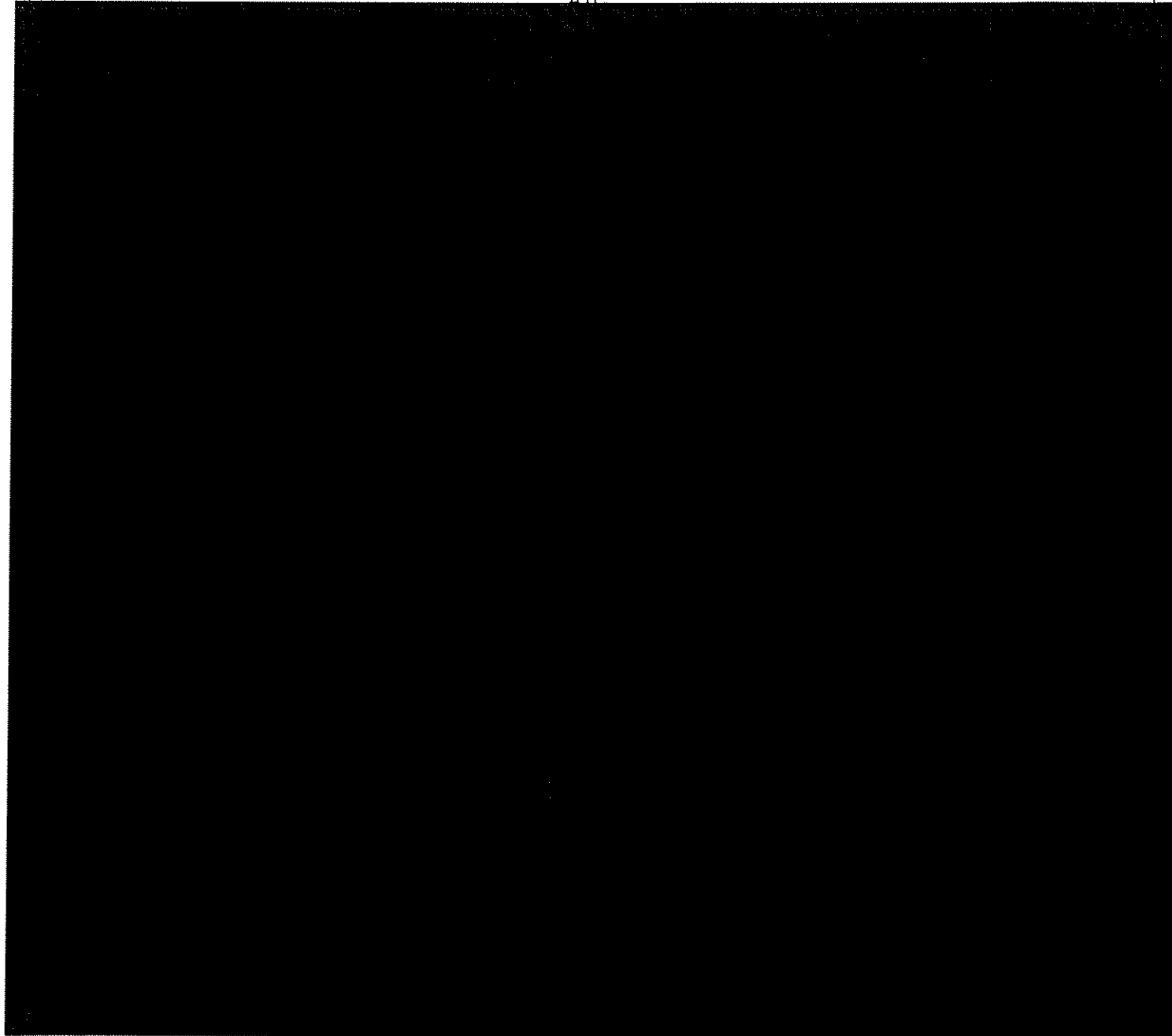
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification): ATC



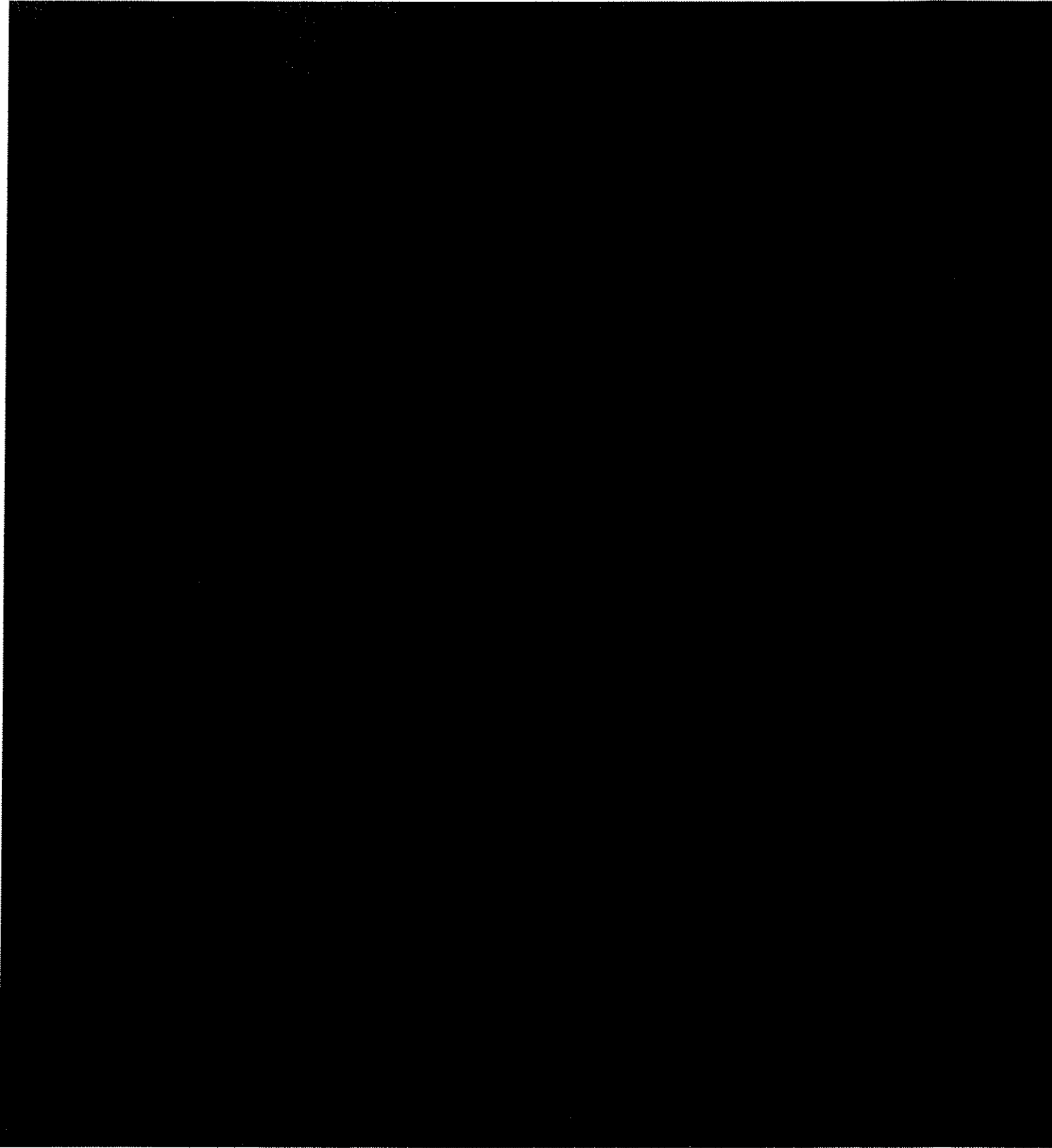
Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

FormS (revised: 12/05)

Pit #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

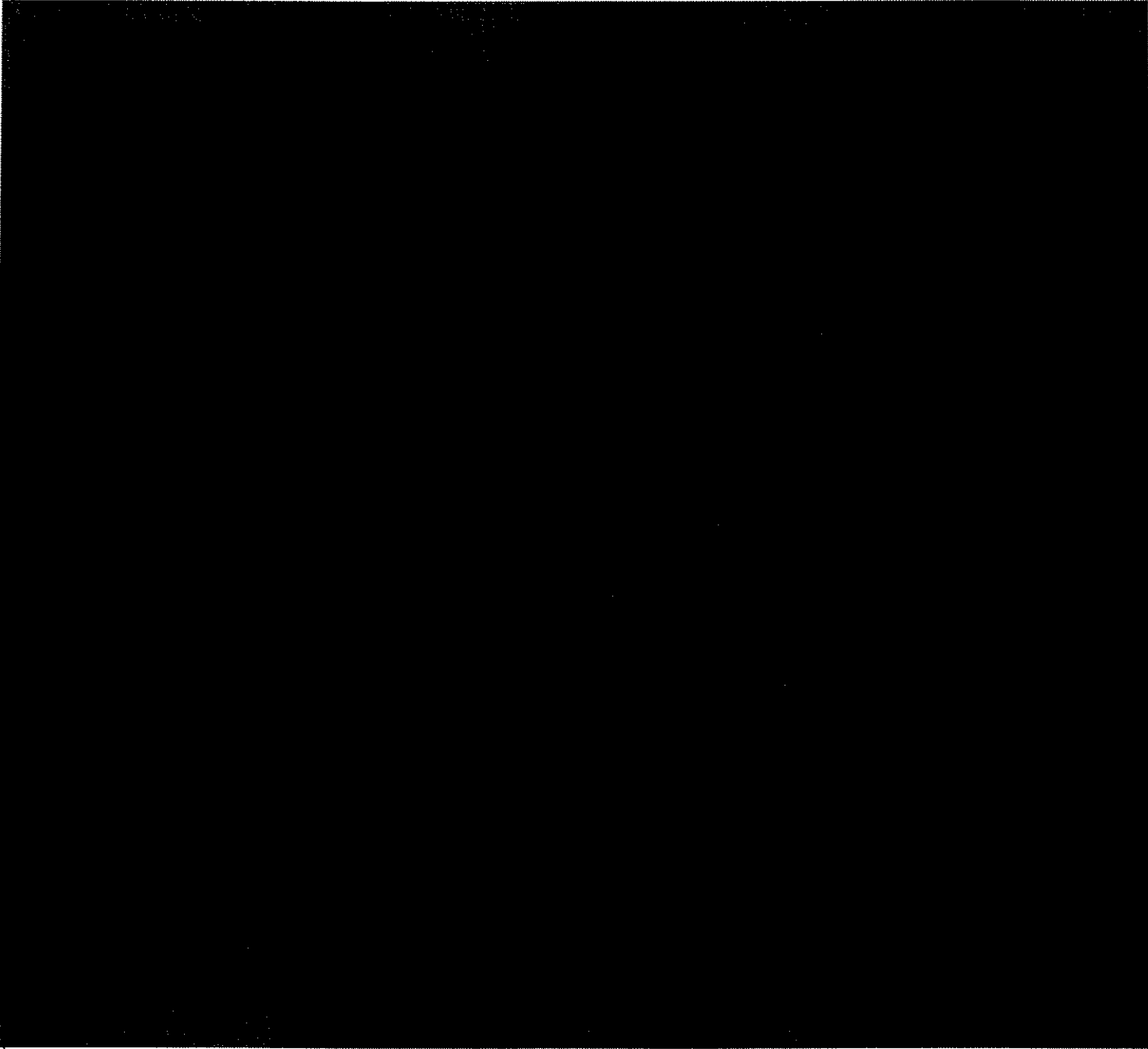
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Tesla Motors Inc	Plant No: 20459 Source No. 1111



Person completing this form: Celine Granger	Date: 12/15/2014
---	------------------

FUELS

Note: * MSCF = thousand standard cubic feet
* m gal = thousand gallons
* therm = 100,000 BTU
** See tables below for Fuel and Basis Codes
*** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(revised: 6/01)

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

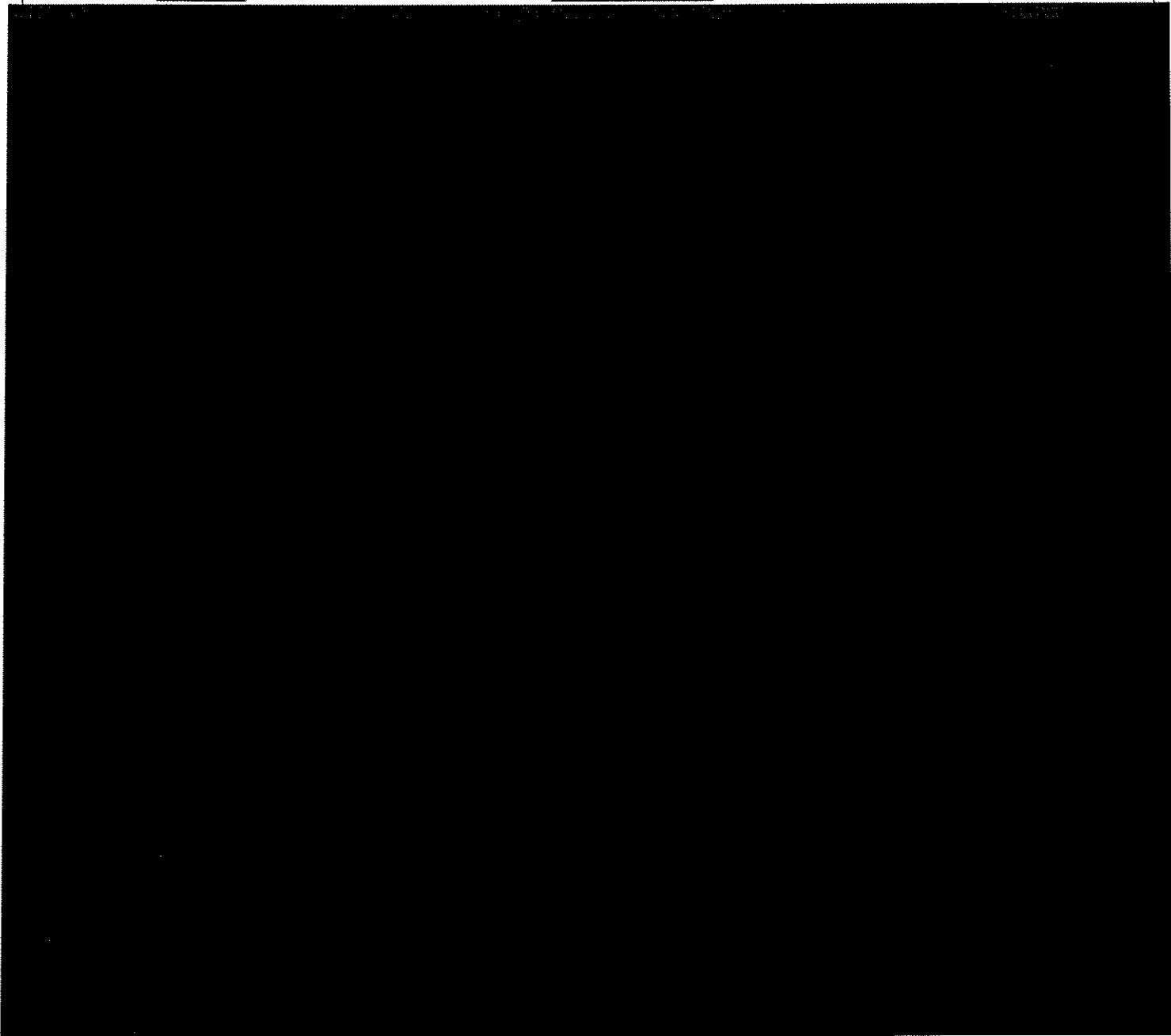
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990
Fax (415) 749-5030 . . . www.baaqmd.gov

DATA FORM S
Surface Coating / Solvent Source

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification): ATC

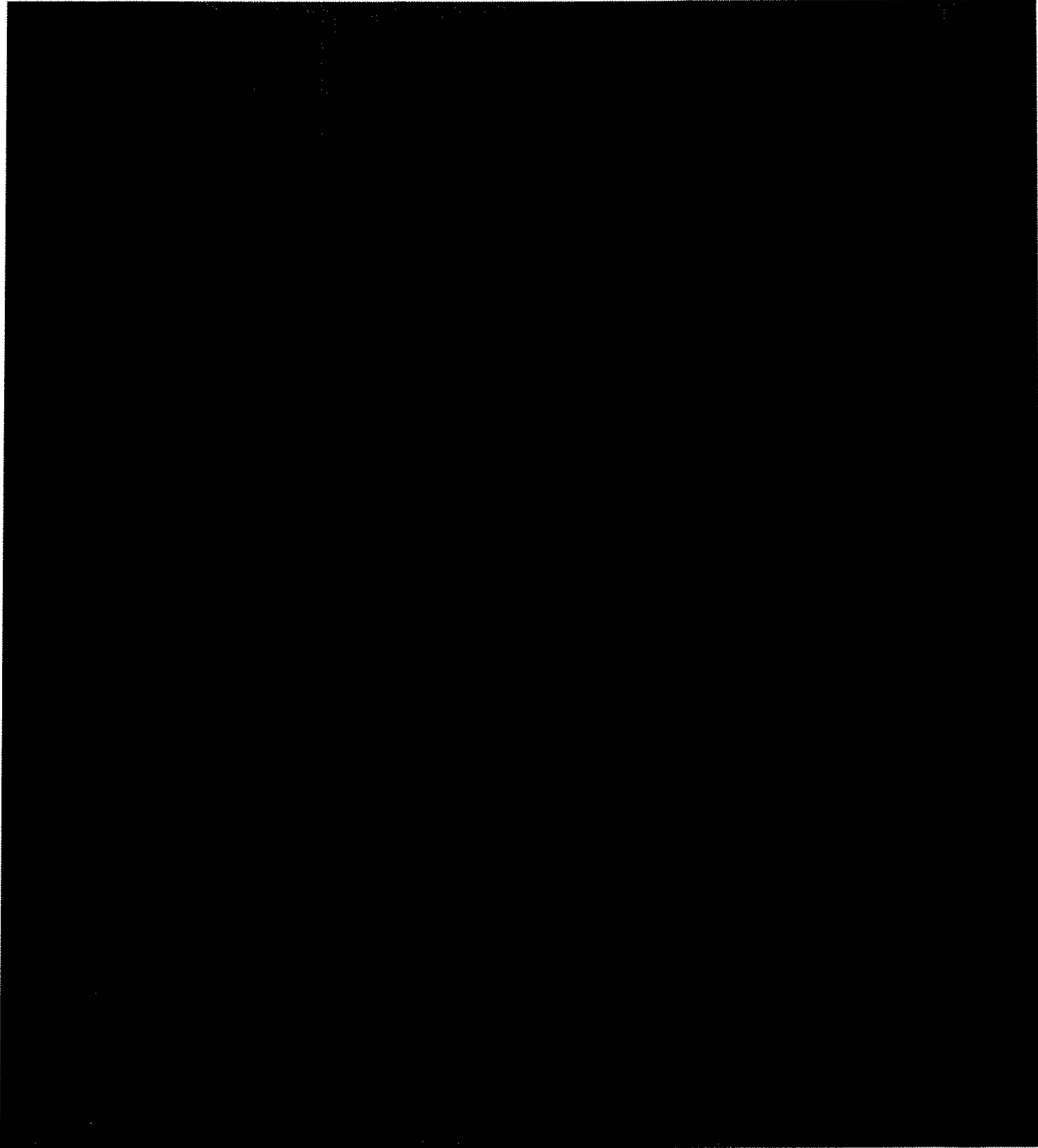


Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22 Page 1 of 2
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

Pit #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Tesla Motors Inc	Plant No: 20459 Source No. 3015

Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

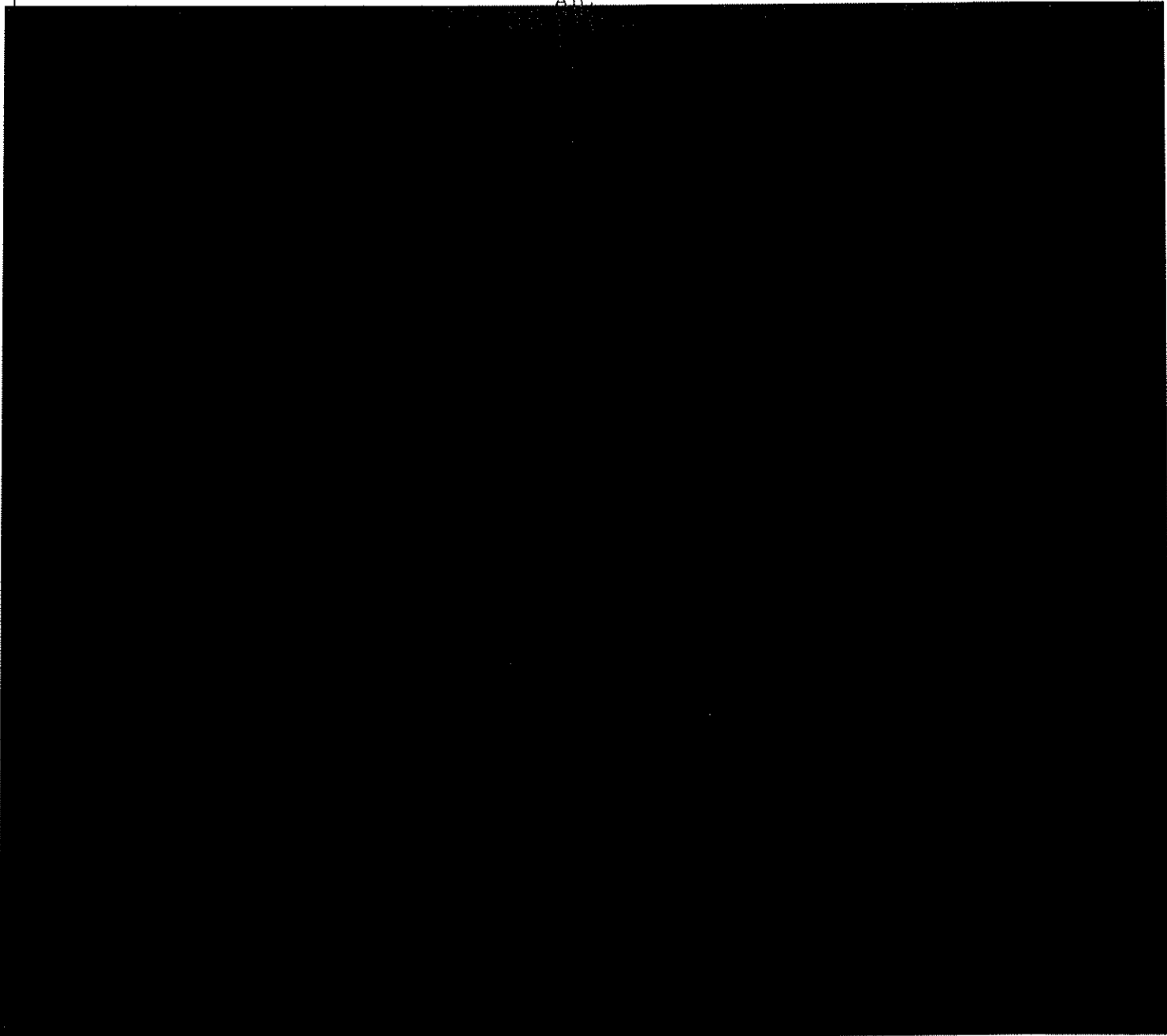
Note: * MSCF = thousand standard cubic feet
* m gal = thousand gallons
* therm = 100,000 BTU
** See tables below for Fuel and Basis Codes
*** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(if unknown, leave blank)

1. Business Name: Tesla Motors Inc. Plant No: 20459

2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of Date of start-up (modification): ATC



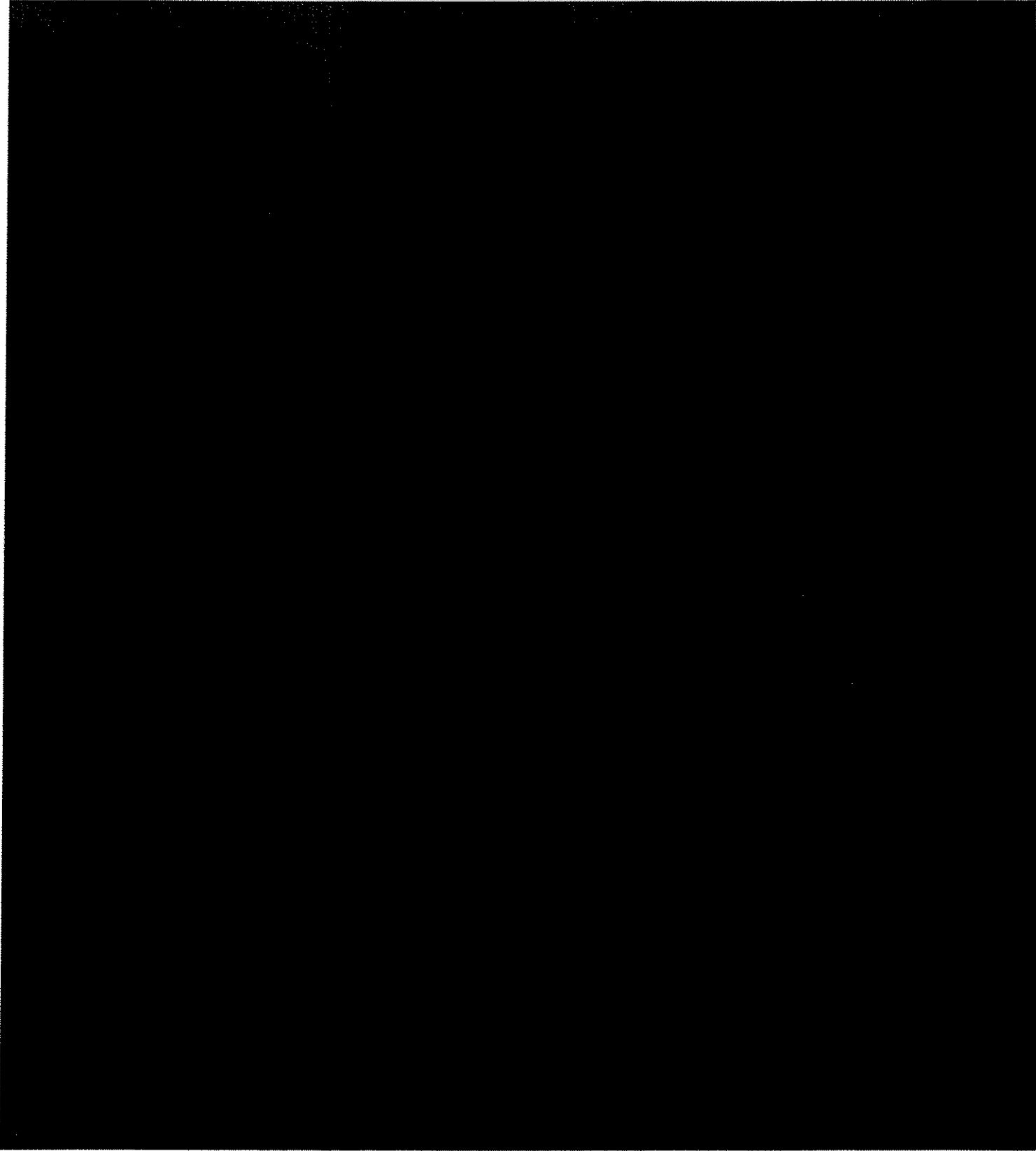
Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22 Page 1 of 2
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

PI#	S#	Initials	Date

FormS (revised: 12/05)



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

		(If unknown, leave blank)	
1. Company Name:	Tesla Motors Inc	Plant No:	20459 Source No. 3017

Person completing this form:	Celine Granger	Date:	12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

Other Gas = lb/MSCF*
Liquid = lb/m gal*
Solid = lb/ton

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.
- Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(revised: 6/01)

1. Business Name:

Tesla Motors Inc.

(if unknown, leave blank)

Plant No:

20459

2. SIC No:

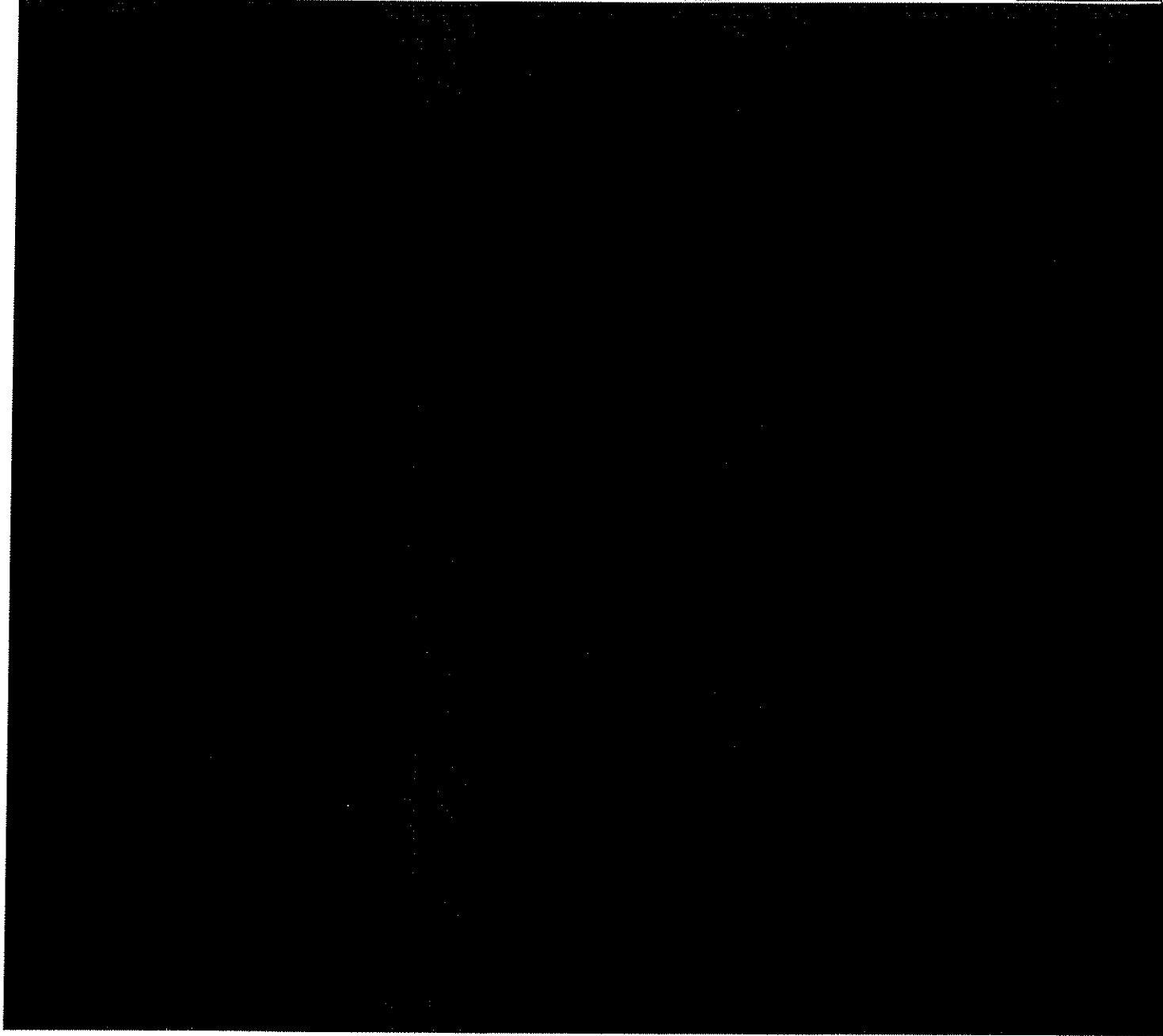
3711

Date of Initial Operation (new):

Upon receipt of

Date of start-up (modification):

ATC

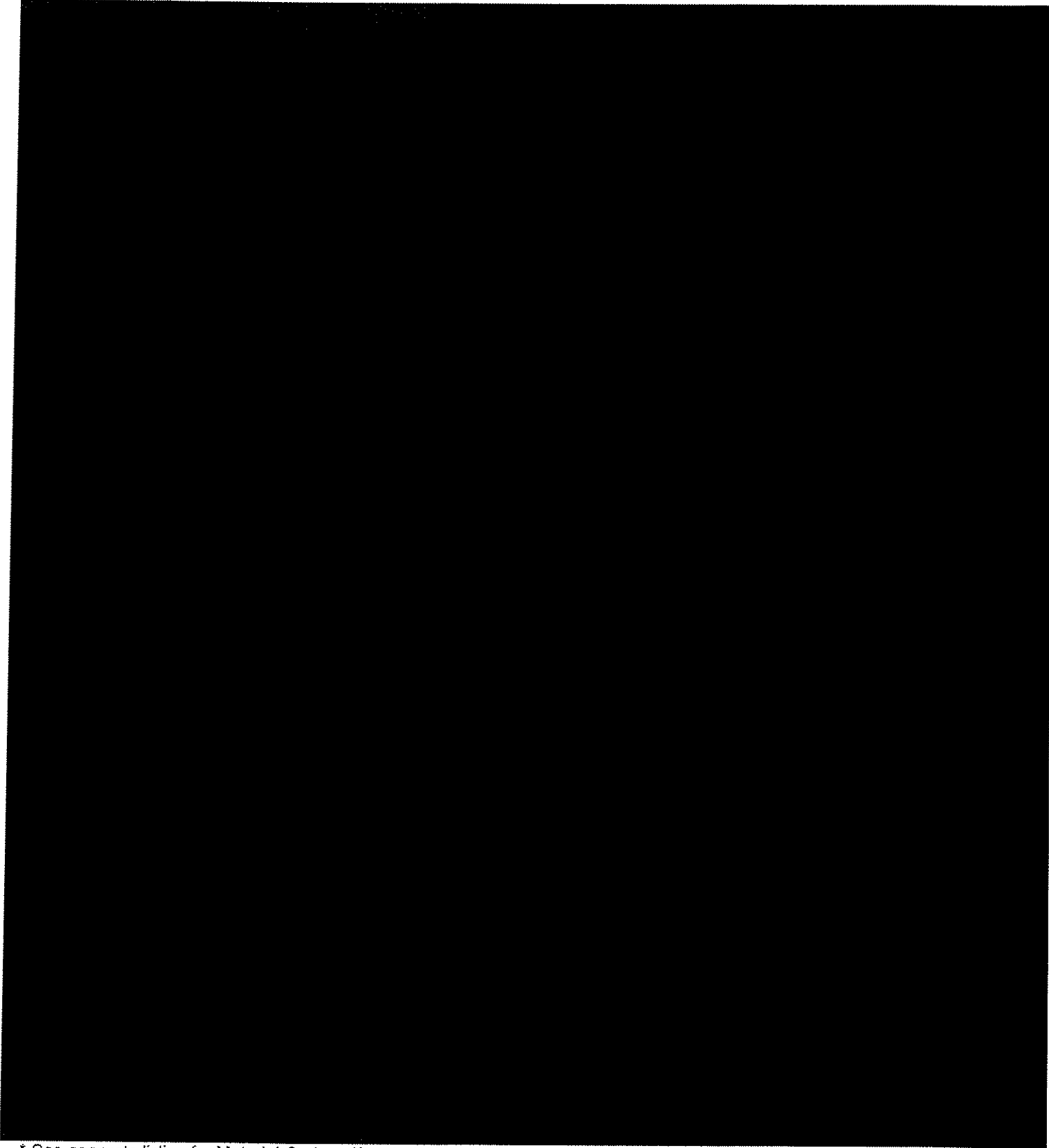


Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

Plt #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

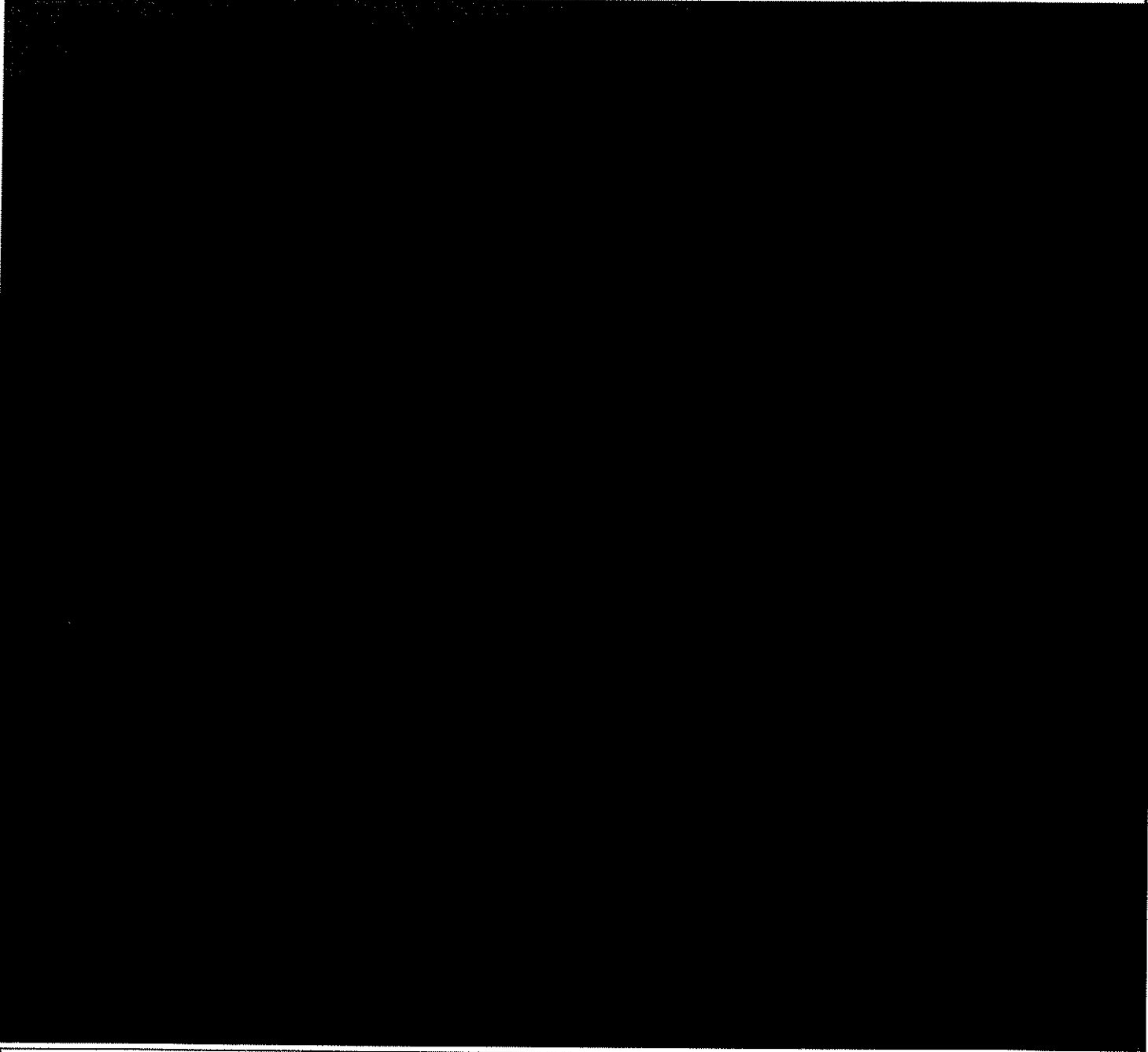
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

1. Company Name: Tesla Motors Inc		(If unknown, leave blank)	
Plant No:	20459	Source No.	1114



Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

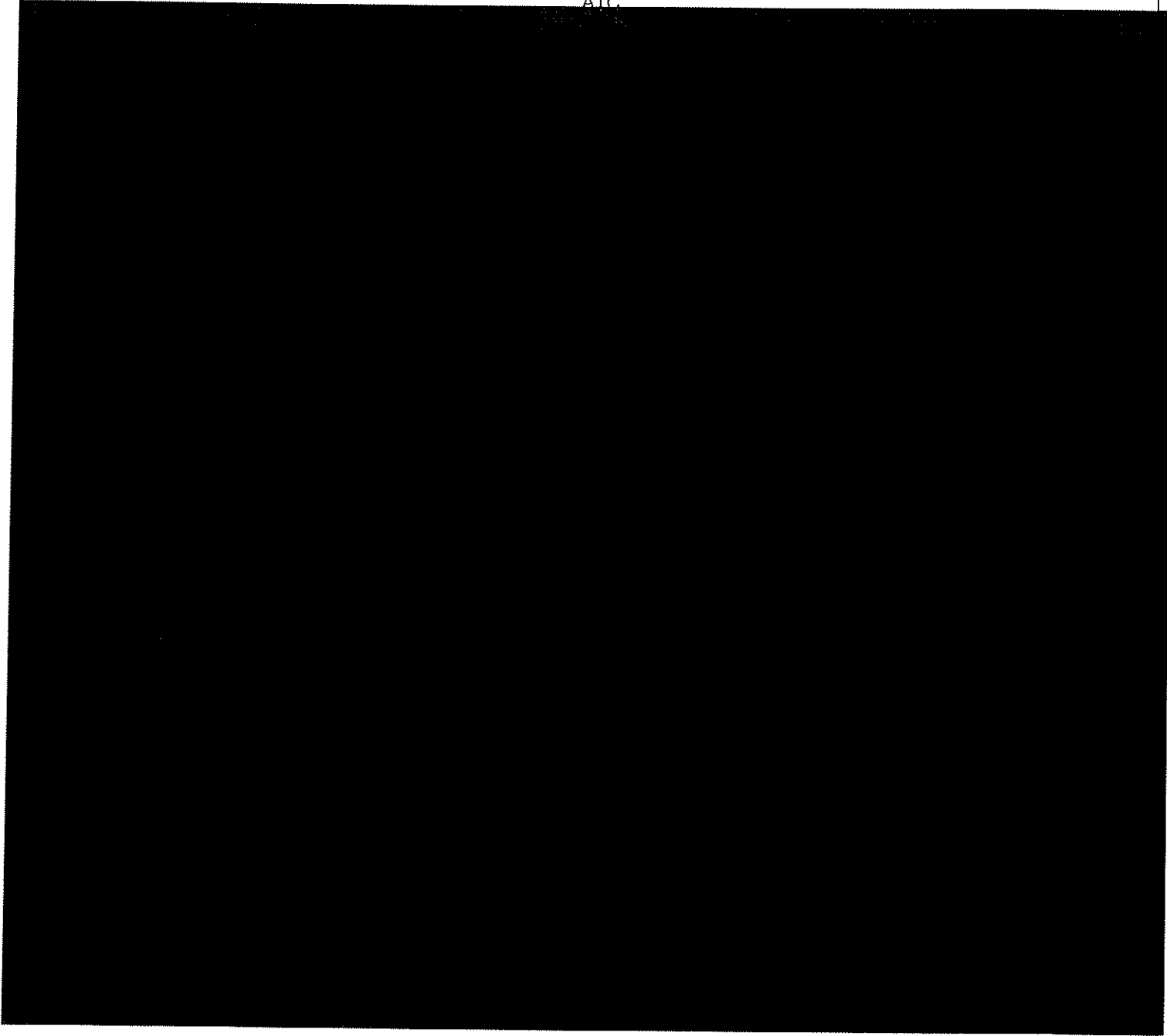
Note:

- * MSCF = thousand standard cubic feet
- * m gal = thousand gallons
- * therm = 100,000 BTU
- ** See tables below for Fuel and Basis Codes
- *** Total annual usage is:
 - Projected usage over next 12 months if equipment is new or modified.
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(revised, 6/01)

1. Business Name: Tesla Motors Inc. Plant No: 20459
2. SIC No: 3711 Date of Initial Operation (new): Upon receipt of ATC Date of start-up (modification):
(if unknown, leave blank)

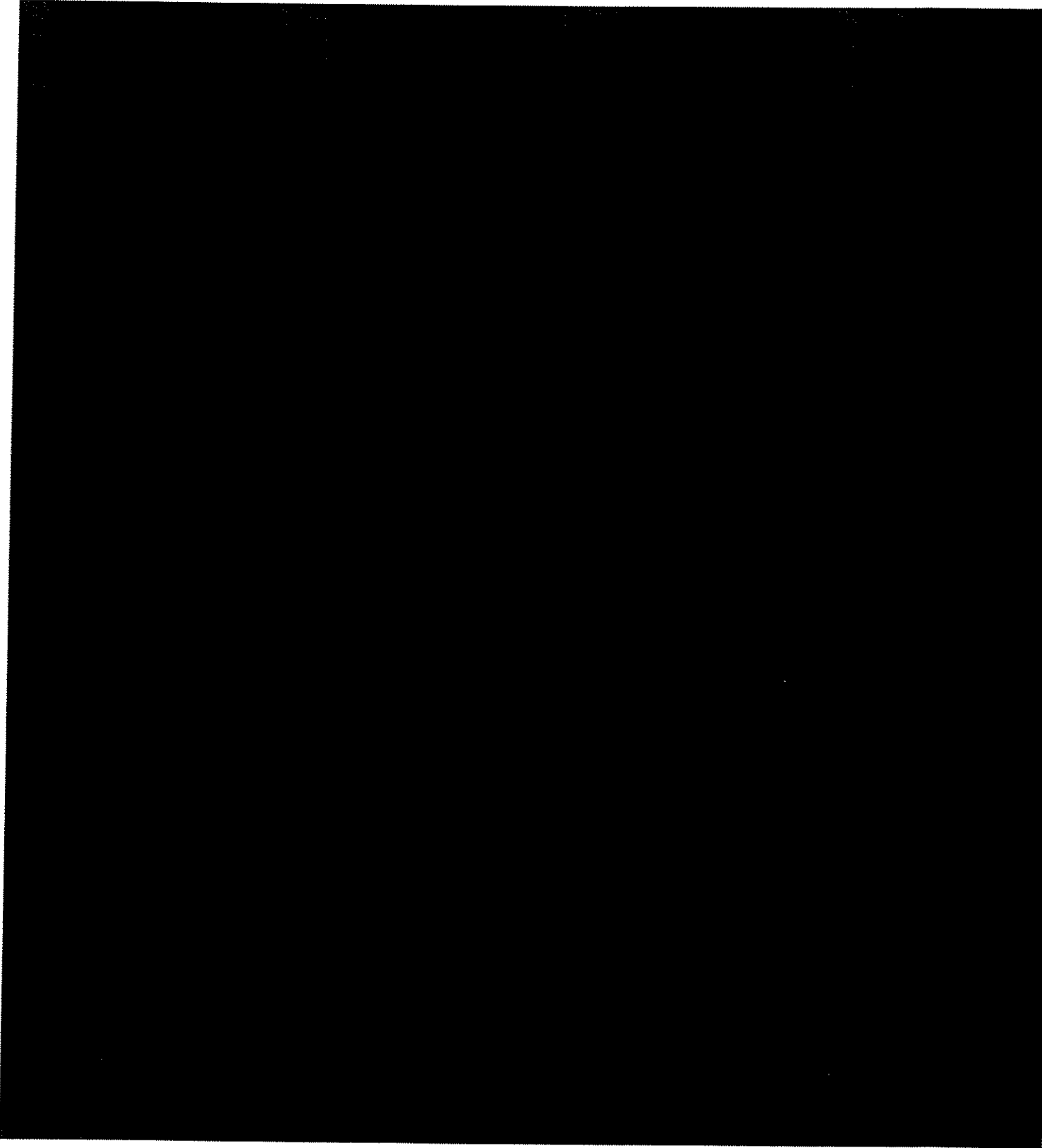


Person completing this form: Celine Granger Date: 12/15/2014

** For printing presses, complete Part A, line #'s 14 through 22
* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

For Office Use Only

PII #	S#	Initials	Date



* See separate listing for Material Codes. If material is not listed, write name of material in place of code.

(for District use only)

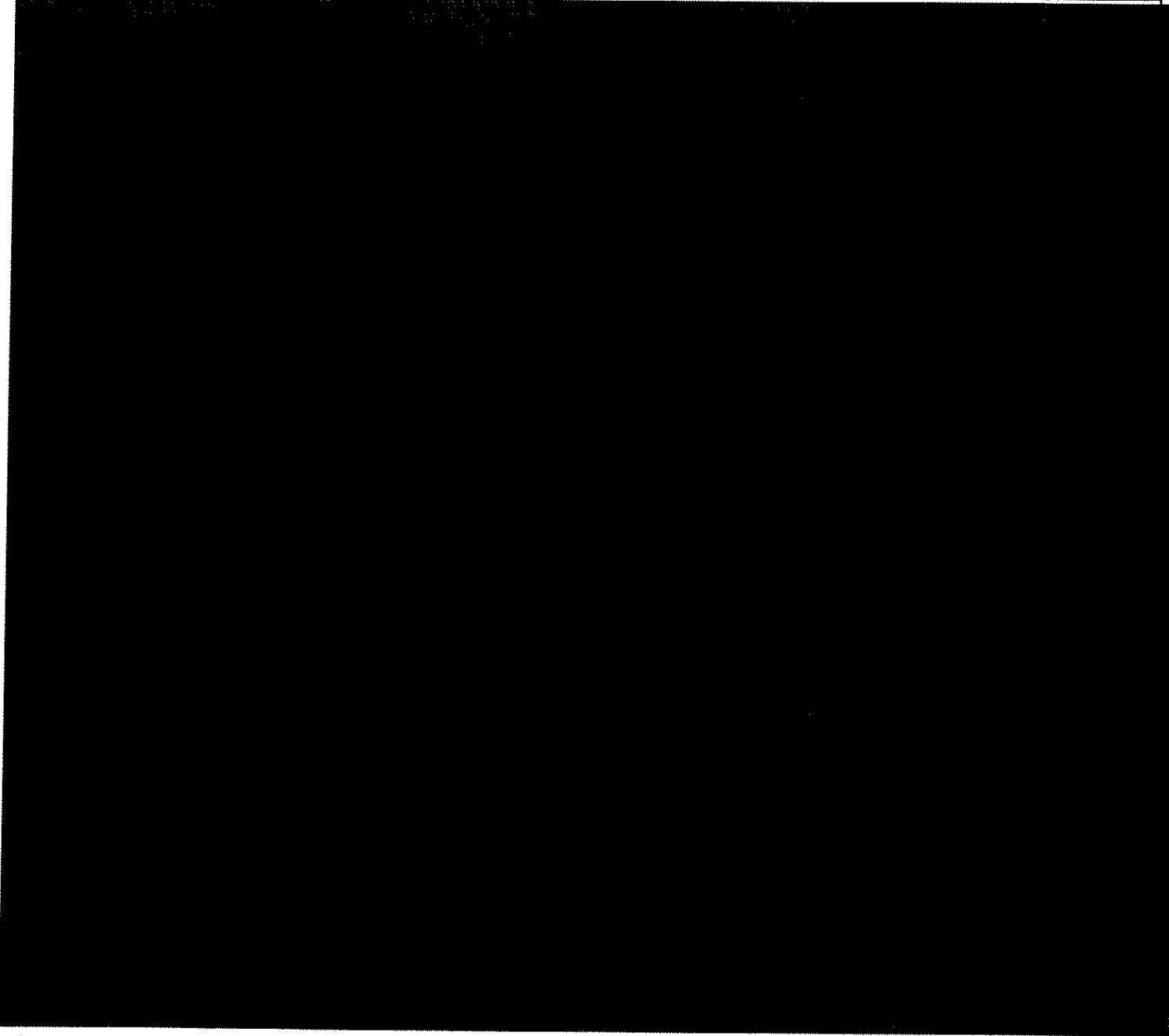
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use Form ICE unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete Form S and attach to this form. If the operation involves a process which generates any other air pollutants, complete Form G and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)		
1. Company Name: Tesla Motors Inc	Plant No: 20459	Source No. 1115



Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

Note: * MSCF = thousand standard cubic feet
* m gal = thousand gallons
* therm = 100,000 BTU
** See tables below for Fuel and Basis Codes
*** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(revised 6/01)

(for District use only)

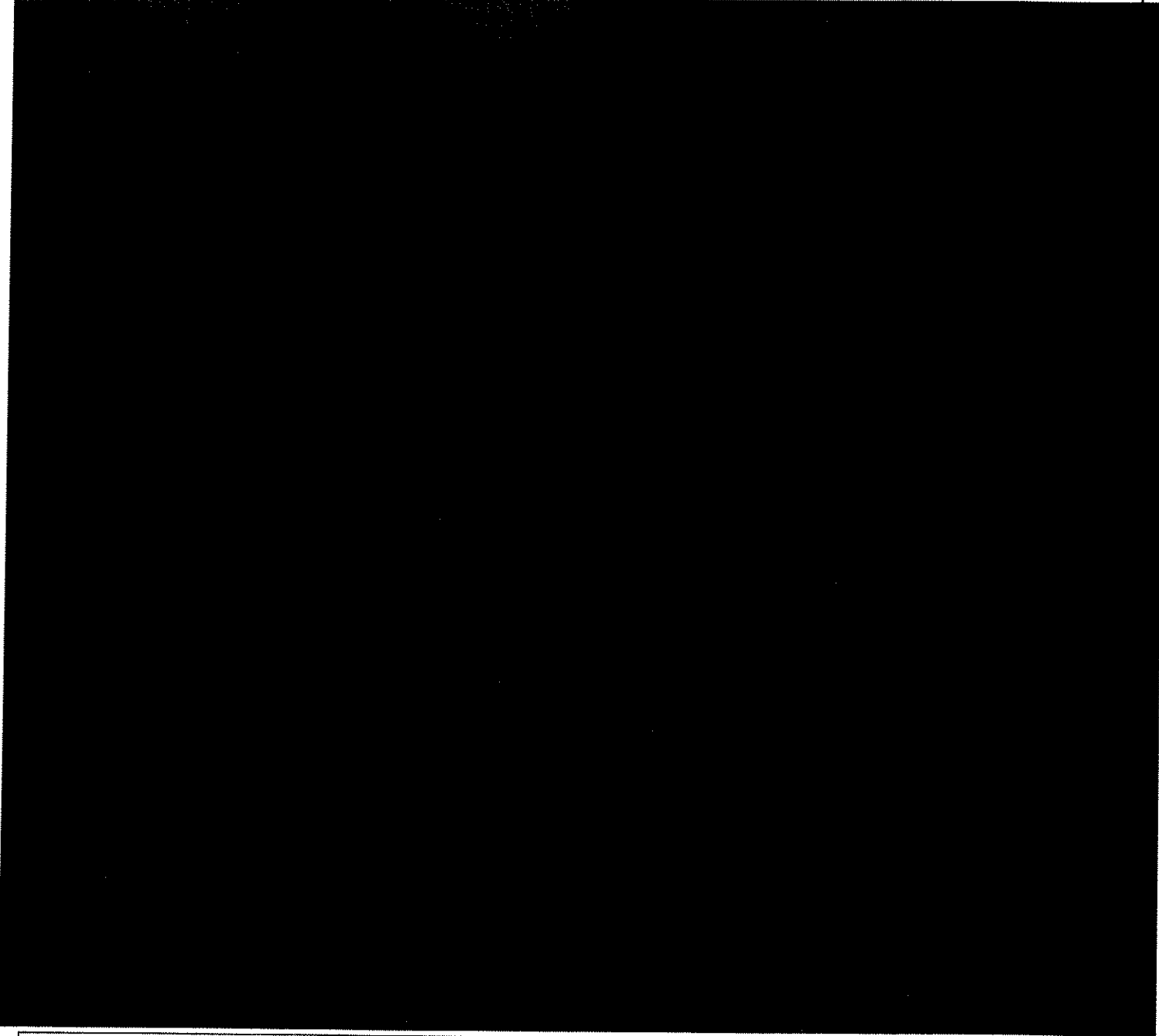
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use Form ICE unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete Form S and attach to this form. If the operation involves a process which generates any other air pollutants, complete Form G and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

1. Company Name: Tesla Motors Inc		(If unknown, leave blank)	
Plant No:	20459	Source No.	3007



Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.
- Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	- Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(for District use only)

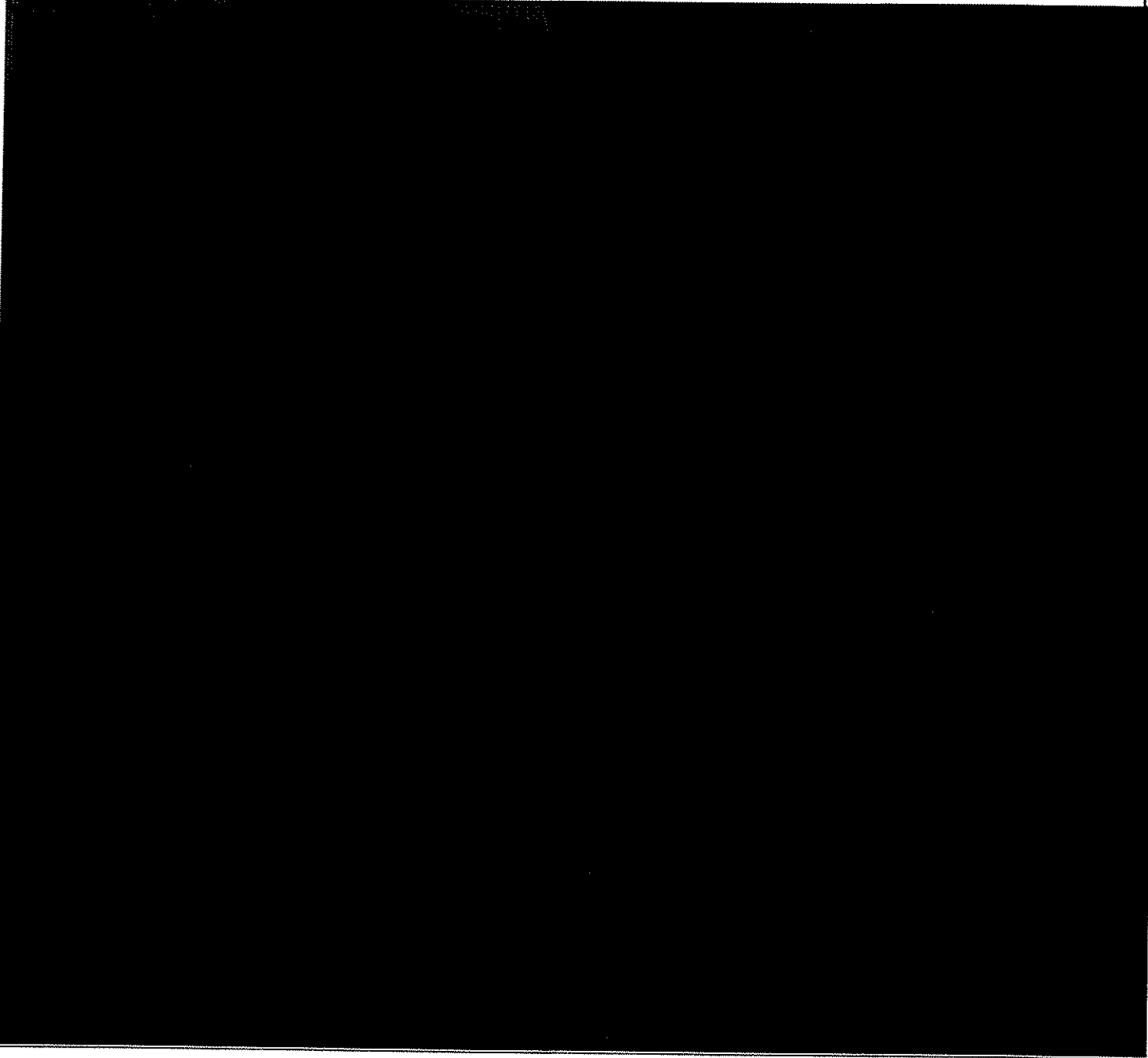
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use Form ICE unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete Form S and attach to this form. If the operation involves a process which generates any other air pollutants, complete Form G and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

1. Company Name:	Tesla Motors Inc	(if unknown, leave blank)
Plant No:	20459	Source No. 1123



Person completing this form:	Celine Granger	Date:	12/15/2014
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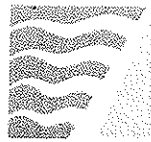
FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.
- Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
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242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

(revised: 6/01)



Data Form A
ABATEMENT DEVICE

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

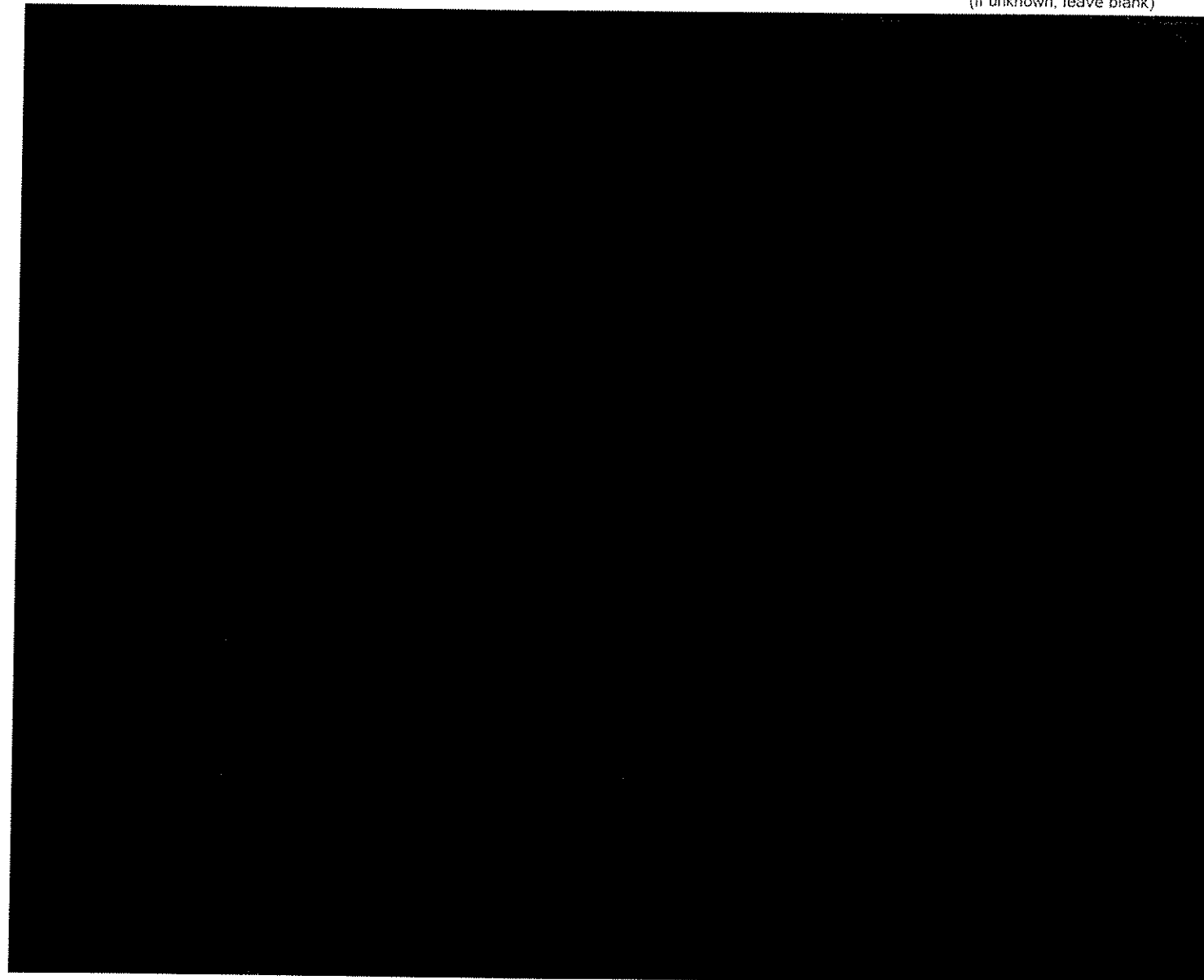
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

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for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Tesla Motors Inc Plant No: 20459
(If unknown, leave blank)



Person completing this form: Celine Granger Date: 12/15/2014

P:\www\FormA (revised: 7/99)

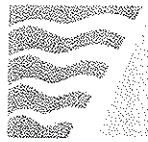
*ABATEMENT DEVICE CODES

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	NO _x CONTROL
66	Selective Catalytic Reduction (SCR)

Code	DEVICE
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H ₂ S ₀₄ Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H ₂ S ₀₄ Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above

**BASIS CODES

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement by plant
2	Source testing or other measurement by BAAQMD
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



Data Form A
ABATEMENT DEVICE

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

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for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Tesla Motors Inc Plant No: 20459
(if unknown, leave blank)



Person completing this form: Celine Granger

Date: 12/15/2014

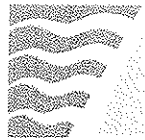
*ABATEMENT DEVICE CODES

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	NO _x CONTROL
66	Selective Catalytic Reduction (SCR)

Code	DEVICE
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H ₂ S ₀₄ Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H ₂ S ₀₄ Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above

**BASIS CODES

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement by plant
2	Source testing or other measurement by BAAQMD
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



Data Form A
ABATEMENT DEVICE

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

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for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Tesla Motors Inc Plant No: 20459
(If unknown, leave blank)

[Redacted area]

Person completing this form: Celine Granger	Date: 12/15/2014
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*ABATEMENT DEVICE CODES

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	NO _x CONTROL
66	Selective Catalytic Reduction (SCR)

Code	DEVICE
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H ₂ S ₀₄ Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H ₂ S ₀₄ Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above

**BASIS CODES

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement by plant
2	Source testing or other measurement by BAAQMD
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess

(for District use only)

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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☒ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

		(If unknown, leave blank)	
1. Company Name:	Tesla Motors Inc	Plant No:	20459 Source No. 1197

Person completing this form:	Celine Granger	Date:	12/15/2014
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FUELS

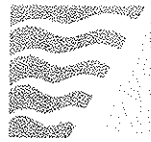
INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

SECTION A: FUEL DATA

Use the appropriate units for each fuel: Natural Gas = lb/therm*
Other Gas = lb/MSCF*
Liquid = lb/m gal*
Solid = lb/ton

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.
- Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				



Data Form A
ABATEMENT DEVICE

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Tesla Motors Inc Plant No: 20459
(if unknown, leave blank)

[Redacted area]

Person completing this form: Celine Granger

Date: 12/15/2014

P:\www\FormA (revised: 7/99)

*ABATEMENT DEVICE CODES

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	NO _x CONTROL
66	Selective Catalytic Reduction (SCR)

Code	DEVICE
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H ₂ S ₀₄ Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H ₂ S ₀₄ Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above

**BASIS CODES

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement by plant
2	Source testing or other measurement by BAAQMD
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess

(for District use only)

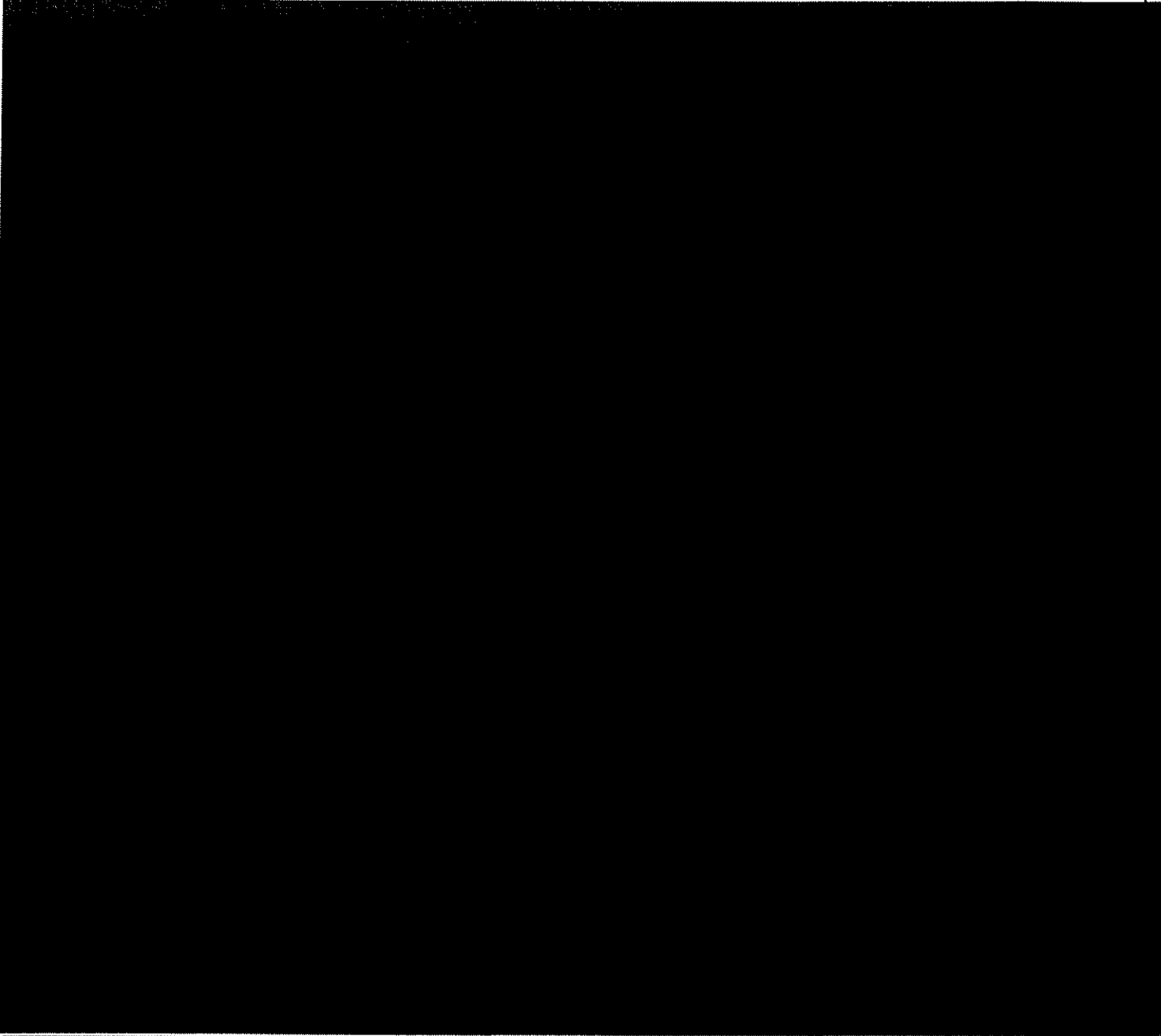
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New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

☒ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Tesla Motors Inc	Plant No: 20459 Source No. 1199



Person completing this form: Celine Granger	Date: 12/15/2014
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FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

- Note:**
- * MSCF = thousand standard cubic feet
 - * m gal = thousand gallons
 - * therm = 100,000 BTU
 - ** See tables below for Fuel and Basis Codes
 - *** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Tesla Motors Inc Plant No: 20459



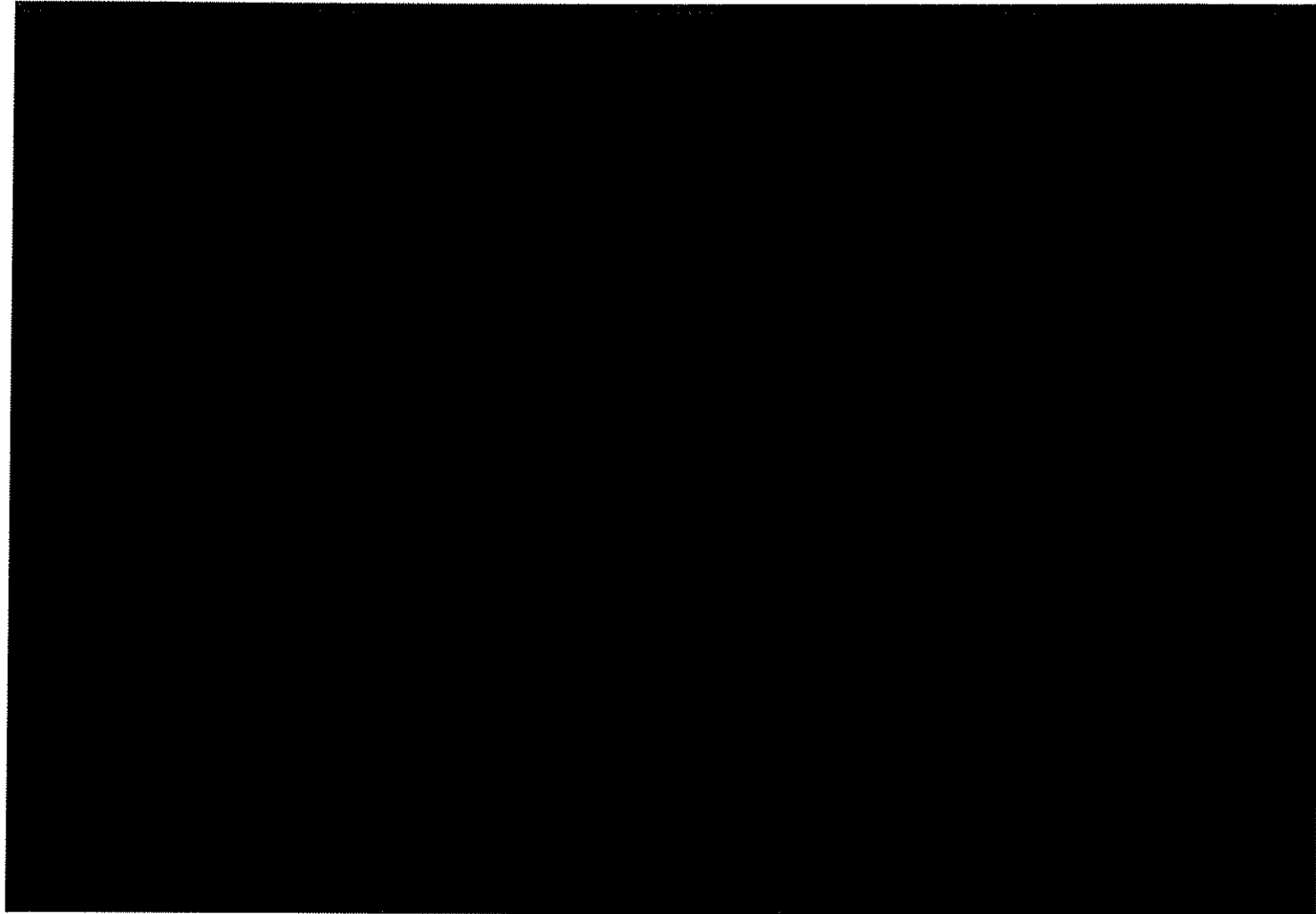
Person completing this form: Celine Granger Date 12/15/2014

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Tesla Motors Inc Plant No: 20459



Person completing this form: Celine Granger Date 12/15/2014

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

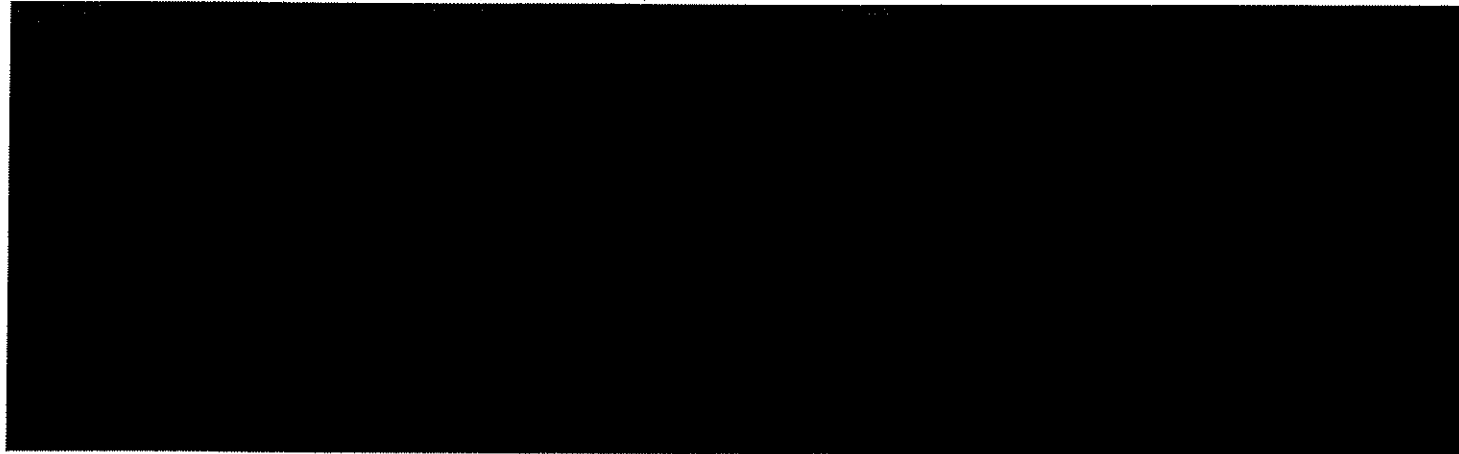
Plant Name: Tesla Motors Inc Plant No.: 20459



SECTION A (Point Source)

1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? ☒ YES OR ☐ NO

(If YES continue at #2, If NO, skip to Section B)



(Skip Section B and Go on to Section C)

SECTION B (Area/Volume Source)

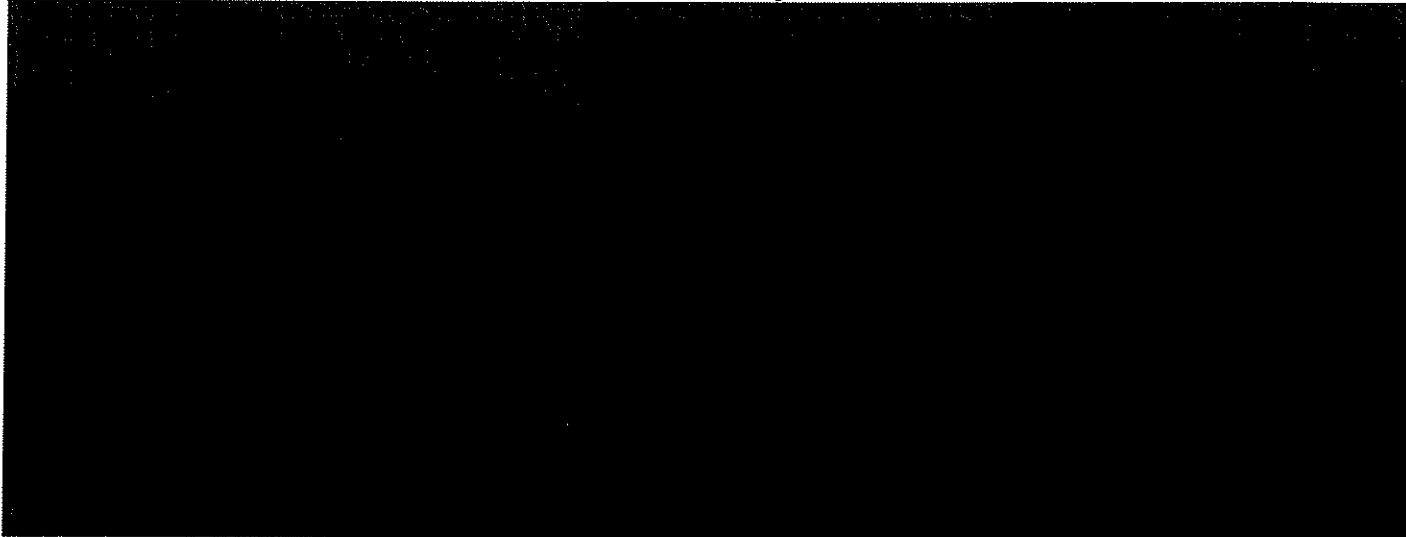
This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

1. Is the emission source located within a building? ☐ YES (go to #2) OR ☐ NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
- a. Does the building have a ventilation system that is vented to the outside? ☐ YES OR ☐ NO
- b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? ☐ YES OR ☐ NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: ☒ feet OR ☐ meters



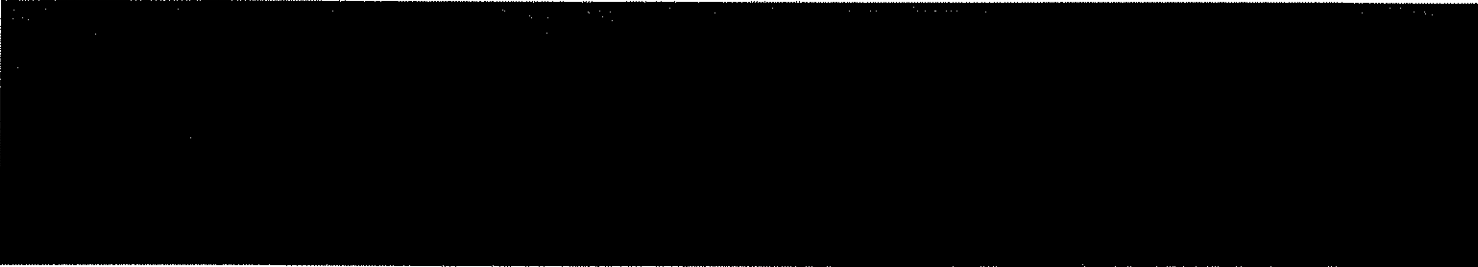
NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

1. Indicate the area where the source is located (check one):
- | | |
|--|--|
| <input type="checkbox"/> zoned for residential use | <input type="checkbox"/> zoned for mixed residential and commercial/industrial use |
| <input checked="" type="checkbox"/> zoned for commercial and/or industrial use | <input type="checkbox"/> zoned for agricultural use |



6. Distance from source to property line of nearest school* (or school site) = _____ feet OR ☒ Greater than 1,000 feet
[Note: Helpful website with California Dept. of Education data: www.greatschools.net]
Provide the names and addresses of all schools that have property line(s) within 1,000 feet of the source:

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

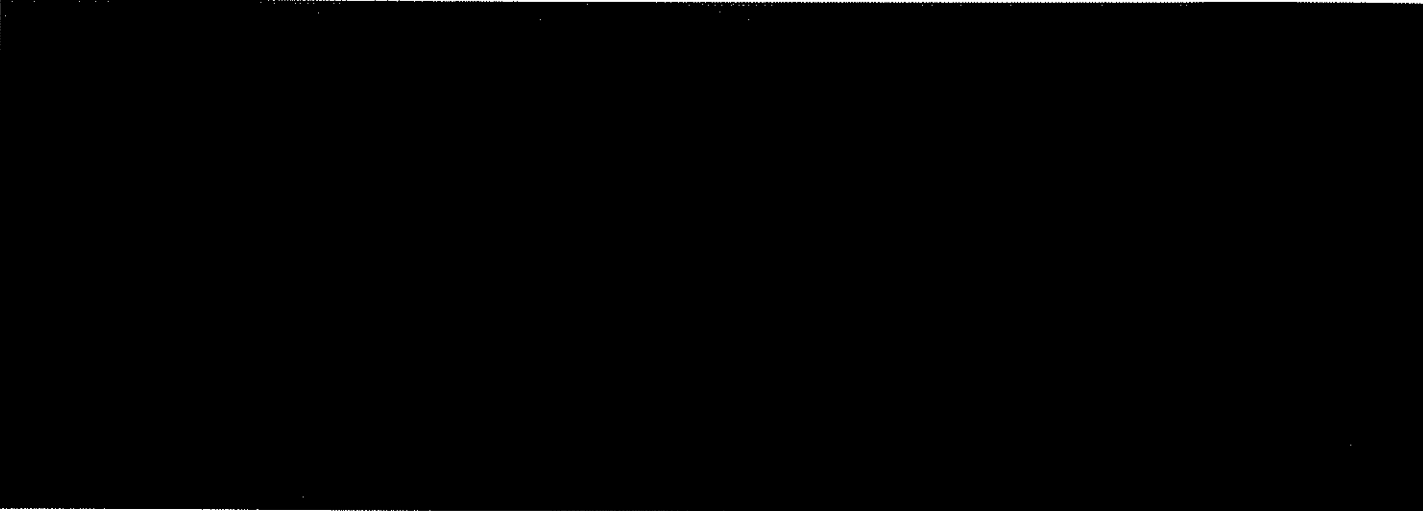
IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: Tesla Motors Inc Plant No.: 20459



SECTION A (Point Source)

1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? ☒ YES OR ☐ NO
(If YES continue at #2, If NO, skip to Section B)



SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

1. Is the emission source located within a building? ☐ YES (go to #2) OR ☐ NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
- a. Does the building have a ventilation system that is vented to the outside? ☐ YES OR ☐ NO
- b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? ☐ YES OR ☐ NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: ☒ feet OR ☐ meters



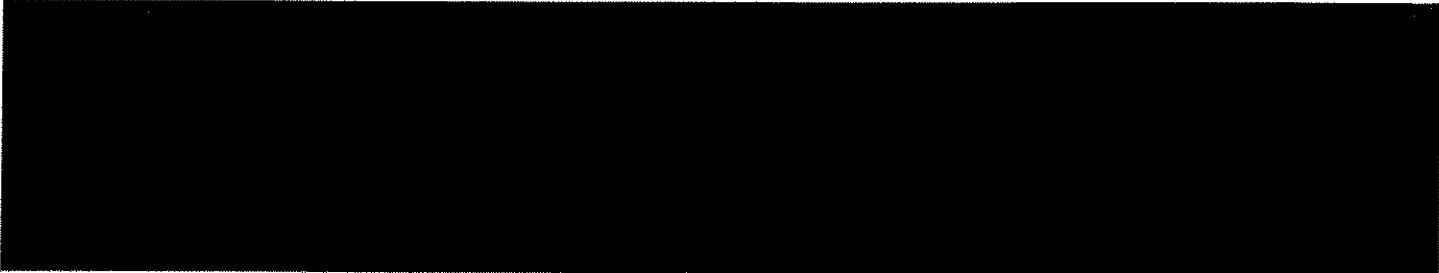
NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

(Go on to Section D)

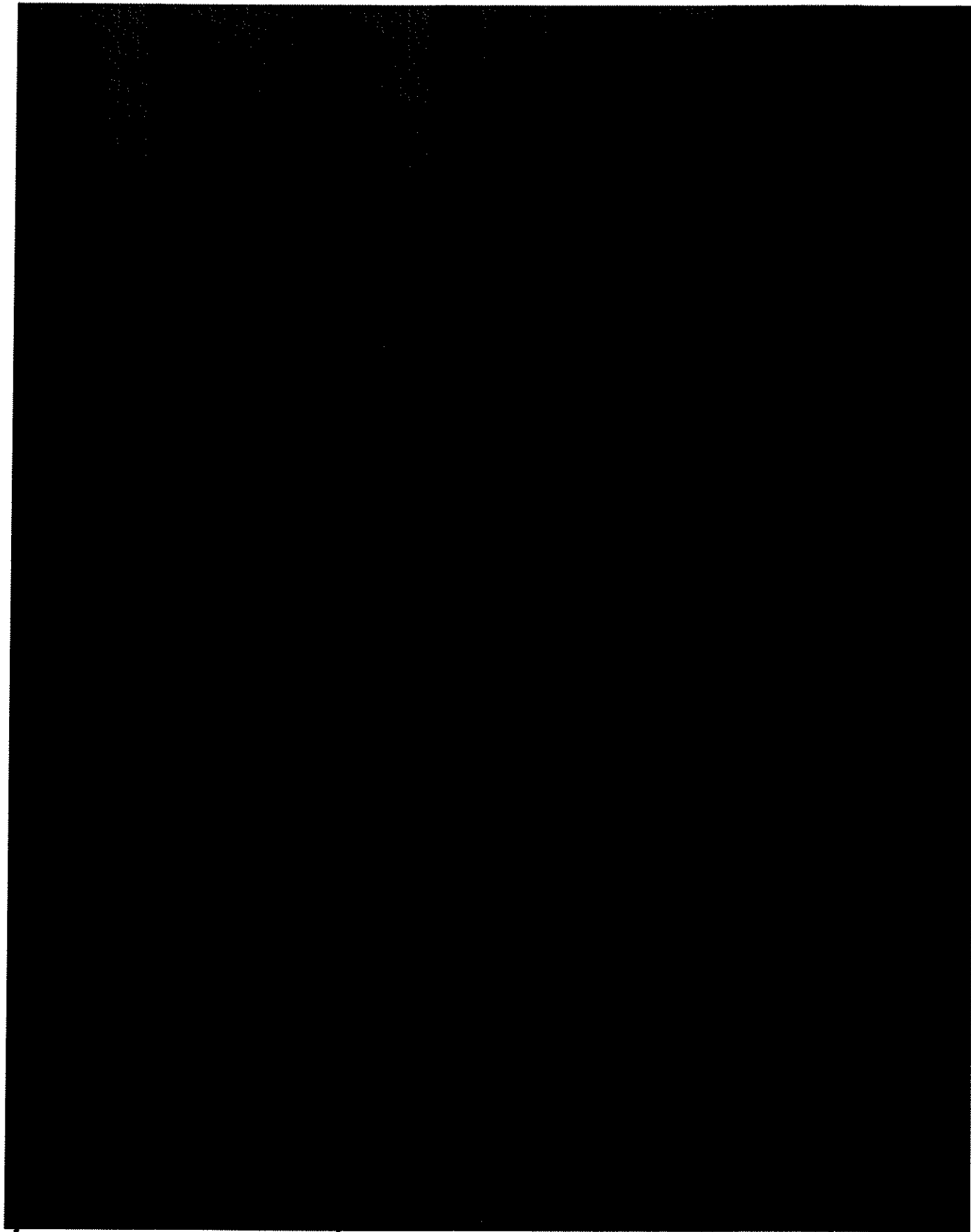
SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

1. Indicate the area where the source is located (check one):
- | | |
|--|--|
| <input type="checkbox"/> zoned for residential use | <input type="checkbox"/> zoned for mixed residential and commercial/industrial use |
| <input checked="" type="checkbox"/> zoned for commercial and/or industrial use | <input type="checkbox"/> zoned for agricultural use |



6. Distance from source to property line of nearest school* (or school site) = _____ feet OR ☒ Greater than 1,000 feet
[Note: Helpful website with California Dept. of Education data: www.greatschools.net]
Provide the names and addresses of all schools that have property line(s) within 1,000 feet of the source:



ENVIRON

Tesla Motors, Inc
North Paint Shop Permit Application
Fremont, CA

FORM
HRSA

DRAFTED BY: JBW

DATE: 12/15/2014

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030
Website: www.baaqmd.gov

APPENDIX H
ENVIRONMENTAL INFORMATION FORM
(To Be Completed By Applicant)

Date Filed: 12/15/2014

General Information

1. Name and address of developer or project sponsor:
Tesla Motors Inc, 45500 Fremont Blvd, Fremont, CA 94538
2. Address of project:45500 Fremont Blvd, Fremont, CA 94538
3. Name, address, and telephone number of person to be contacted concerning this project:
Celine Granger, 45500 Fremont Blvd, 510-249-3532
4. Indicate number of the permit application for the project to which this form pertains:
TBD
5. List and describe any other related permits and other public approvals required for this project, including those required by city, regional, state, and federal agencies:
See section 6 of the application narrative description, "California Environmental Quality Act (CEQA)"
6. Existing zoning district: G-I
7. Proposed use of site (Project for which this form is filed):

Project Description

- 16. If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected: N/A
- 17. If commercial, indicate the type, whether neighborhood, city or regionally oriented, square footage of sales area, and loading facilities: N/A
- 18. If industrial, indicate type, estimated employment per shift, and loading facilities: No anticipated increase
- 19. If institutional, indicate the major function, estimated employment per shift, estimated occupancy, loading facilities, and community benefits to be derived from the project: N/A
- 20. If the project involves a variance, conditional use or rezoning application, state this and indicate clearly why the application is required: N/A

Are the following items applicable to the project or its effects? Discuss below all items checked yes. Attach additional sheets as necessary.

	Yes	No
21. Change in existing features of any bays, tidelands, beaches, or hills, or substantial alteration of ground contours.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22. Change in scenic views or vistas from existing residential areas or public lands or roads.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23. Change in pattern, scale or character of general area of project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24. Significant amounts of solid waste or litter.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25. Change in dust, ash, smoke, fumes or odors in vicinity.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26. Change in ocean, bay, lake, stream or groundwater quality or quantity, or alteration of existing drainage patterns.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Substantial change in existing noise or vibration levels in the vicinity.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28. Site on filled land or on slope of 10 percent or more.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Use of disposal of potentially hazardous materials, such as toxic substances, flammables or explosives.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30. Substantial change in demand for municipal services (police, fire, water, sewage, etc.).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31. Substantially increase fossil fuel consumption (electricity, oil, natural gas, etc.).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
32. Relationship to a larger project or series of projects.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

33. Describe the project site as is exists before the project, including information on topography, soil stability, plants and animals, and any cultural, historical or scenic aspects. Describe any existing structures on the site, and the use of the structures. Attach photographs of the site. Snapshots or Polaroid photos will be accepted: The project is [redacted] to an existing factory building, on land already developed. The land is currently used for temporary storage of equipment. Images are attached.
34. Describe the surrounding properties, including information on plants and animals and any cultural, historical or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.). Attach photographs of the vicinity. Snapshots or Polaroid photos will be accepted. [redacted]

Certification

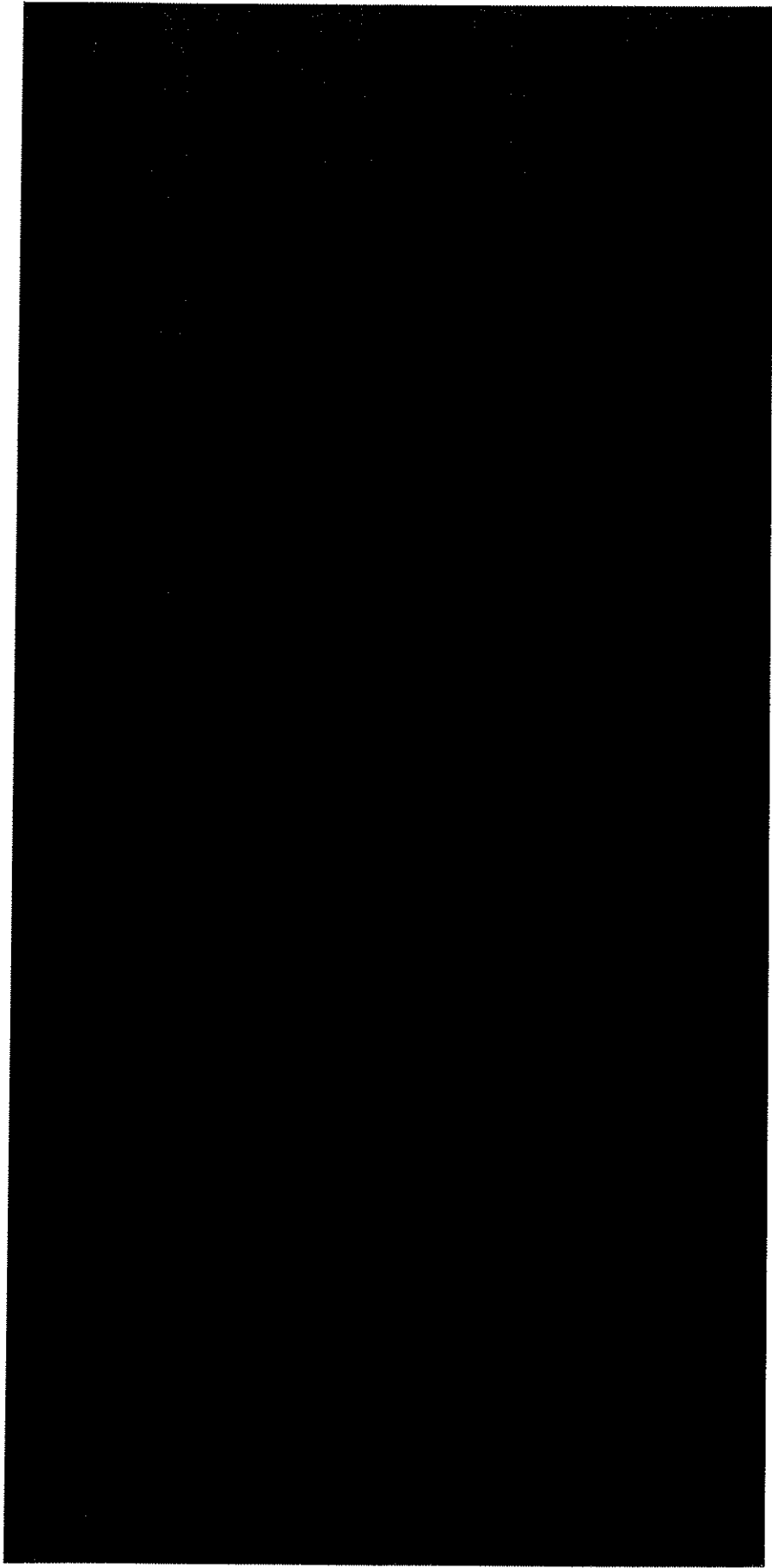
I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

12/15/2014
Date

Signature

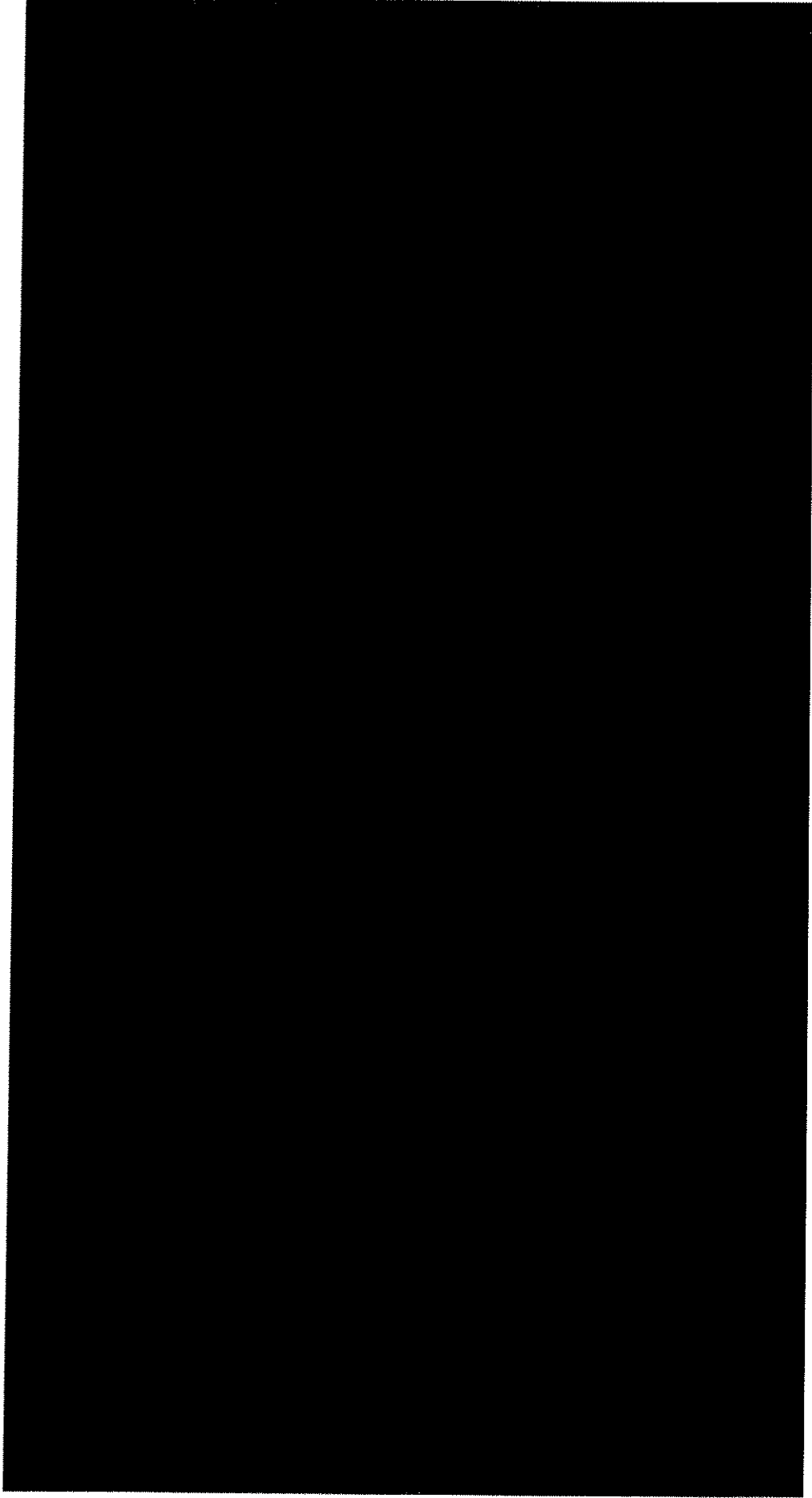
For

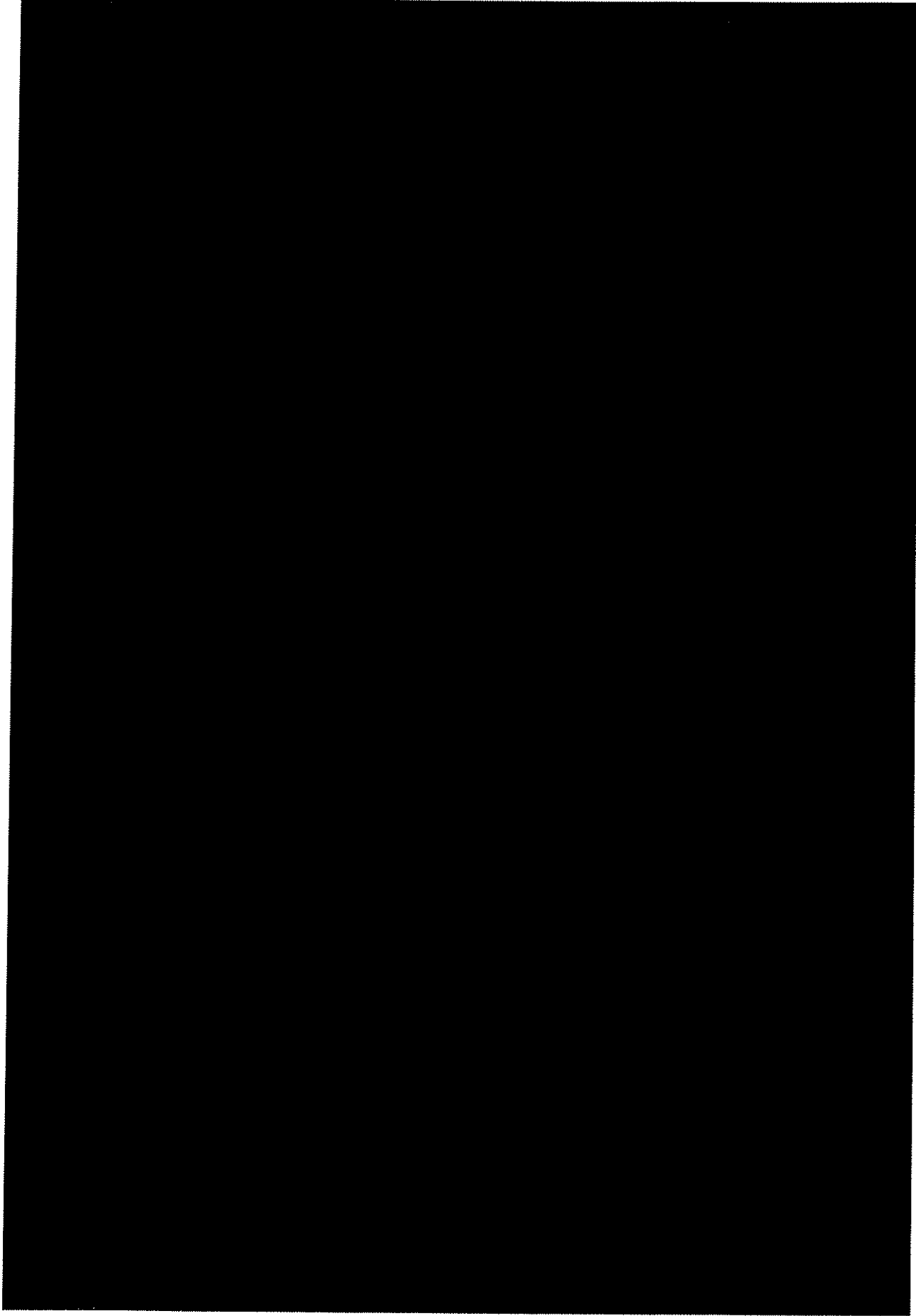
(Note: This is only a suggested form. Public agencies are free to devise their own format for initial studies.)



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Appendix B
Potential to Emit Calculations

Table B-2
North Paint Shop Source Parameters
Tesla Motors, Inc.
Fremont, CA

Source Information:

Coating Operation	Percent Emitted in Booth	Booth Capture Efficiency	Oven Capture Efficiency	Booth Destruction Efficiency	Oven Destruction Efficiency
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[Redacted]

[Redacted]

[Redacted]

Table B-3
North Paint Shop Coating Properties
Tesla Motors, Inc.
Fremont, CA

Coating	MSDS Code	VOC Content		VOC Content of consumed Coating	Density	Percent Solids	Total HAPs	HAP Fraction VOC
		lb/gal	lb/gal applied	lb/gal applied			%	
		3.2	1.07				0	0
		3.1	1.47				0	0
		3.2	0.95				0	0
		3.1	0.89				0	0
		3.4	1.03				0	0
		3.2	0.97				0	0
		3.2	0.96				0	0
		3.2	0.99				0	0
		3.2	1.00				0	0
		3.2	1.08				0	0
		4.2	3.78				0	0
		2.5	3.78				0.3	0.006477
		4.2	3.78				0.7	0.016503
		4.2	3.78				0.3	0.006485
		3.4	3.40				0.3	0.006509
		3.4	3.40				1.4	0.040394
		3.4	3.40				1.2	0.037835
3.4	3.40				1.4	0.037553		

Source:
See material safety data sheets

Table B-4
North Paint Shop VOC Emissions
Tesla Motors, Inc.
Fremont, CA

Coating Type	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Topcoat	Primer Surface	Primer Surface	Primer Surface
VOC Content	1.47	1.07	1.03	0.97	1.03	0.95	0.96	0.99	1	0.89	3.775	3.775	3.775	3.775	3.775	3.4	3.4	3.4	3.4

Table B-5
North Point Shop Coating Toxic Air Contaminant Speciation Profiles
Tesla Motors, Inc.
Fremont, CA

Coating	MSDS Code	VOC Content		Density lb/gal	Toxic Air Contaminant Weight Percent ¹									
		lb/rat			2-Butoxyethanol	Formaldehyde	Ethylbenzene	Naphthalene	Xylene	Silica, amorphous	1-Methoxy-2- propanol	Isopropyl alcohol	2-Ethylhexanol	
				3.2	0.031							2.78	5	
				6.4	0.044								5	
				4.2	0.023								5	
				1.9	0.049								5	
				2.8	0.021								5	
				2.5	0.022							1.36	5	
				3.8									5	
				5.1	0.031								5	
												5.5		5
								0.1						
												5.5		
					0.018						5.5			
					0.015				0.86			5	3.11	
				3.3				0.96					2.29	
				3.3	0.021									
	0.018				0.73	0.55			5					
										2.74				

Notes:
1. Speciation data provided by EAST

Table B-6
North Paint Shop Combustion Emission Factors
Tesla Motors, Inc.
Fremont, CA

Source Number ¹	Source Description, Phase 1	Source Description, Phase 2	Annual Firing Rate (therms/year)	Emission Factors ² (lb/MMBTU)						GHGs ³ (kg/MMBTU)			
				CO	NOx	PM10/PM2.5	SOx	VOC	CO2	CH4	N2O		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.07	0.007	0.001	0.005	53.020	0.001	0.0001		
				0.08	0.2	0.007	0.001	0.005	53.020	0.001	0.0001		
0.08	0.2	0.007	0.001	0.005	53.020	0.001	0.0001						



PERMIT TO OPERATE

PLANT No. 1534

SOURCE No. 203

Silicon Valley Clean Water

Radio Road, End of, Redwood City, CA 94065

IS HEREBY GRANTED A PERMIT TO OPERATE THE FOLLOWING EQUIPMENT

Hot Water Boiler, 3E6 BTU/HR

Subject to attached condition no. 25812.¹

JIM KARAS, P.E.
DIRECTOR OF ENGINEERING

Permit Issue Date March 10, 2015
Reported Start Up Date February 26, 2015
Permit Expiration Date February 26, 2016 By _____

Right of Entry

The Air Pollution Control Officer of the Bay Area Air Quality Management District, the Chairman of the California Air Resources Board, the Regional Administrator of the Environmental Protection Agency, and/or their designees, upon presentation of credentials, shall be granted the right of entry to any premises on which an air pollution source is located for the purposes of : i) the inspection of the source ii) the sampling of materials used at the source iii) the conduction of an emissions source test iv) the inspection of any records required by District rule or permit condition.

Permit Expiration

In accordance with Regulation 3-408, a Permit to Operate is valid for 12 months from the date of issuance or other time period as approved by the APCO. Use of this Permit to Operate is authorized by the District until the later of: the Permit Expiration Date or the Permit Renewal Date. Permit to operate fees will be prorated as described in Regulation 3-402 when the permit is renewed.

This permit does not authorize violation of the rules and regulations of the BAAQMD or the Health and Safety Code of the State of California. District regulations may be viewed on line at www.baaqmd.gov. This permit is not transferable to another person without approval from the District. It is the responsibility of the permit holder to have knowledge of and be in compliance with all District Rules and Regulations.
1. Compliance with conditions contained in this permit does not mean that the permit holder is currently in compliance with District Rules and Regulations.

Permit Holder Must Sign Here _____