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ENGINEERING EVALUATION – AUTO BODY

Facility ID No. 202150
GAA Auto Repair and Collision
926 S Claremont, ST, San Mateo, CA 94402
Application No. 632077

Background

GAA Auto Repair and Collision is applying for an Authority to Construct/Permit to Operate for the following new source:

S-1 Auto Body Coating Operation

This evaluation report will discuss compliance of the proposed project with all applicable rules and regulations.

Emissions

This evaluation will be based on default annual usage limits of 500 gallons of coating and 200 gallons of clean-up solvent.

Basis:

- Operation schedule: 16 hr/day (max), 8 hr/day (typical), 5 day/week, 52 week/yr
- Material usage: 500 gal/yr of coating and 200 gal/yr of clean-up solvent
- For general auto body coating material:
  - 2.4 lb/gal POC content
  - 2.4 lb/gal NPOC content (100% p-chlorobenzotriflouride)
- For general auto body clean-up solvent:
  - 5.0 lb/gal POC content (42% aromatic hydrocarbons, 13% butyl alcohol, 13% butyl acetate, 10% isopropyl alcohol, 14% toluene, 10% xylene)
  - 2.1 lb/gal NPOC content (100% acetone)
- POC is Precursor Organic Compound.
- NPOC is Non-Precursor Organic Compound.
- Organics is the sum of POC and NPOC.
- No gas fired dryer will be utilized.

Summary of the POC and NPOC emissions from use of the coating and clean-up solvent at this source is in Table 1.

Table 1. POC and NPOC Emissions

Pollutant	Total Emissions (lb/yr)	Total Emissions (ton/yr)	Total Emissions (lb/day)
Organics	3,828	1.91	14.7
POC	2,208	1.10	8.49
NPOC	1,620	0.81	6.23

Plant Cumulative Increase

POC = 0.00 tpy (existing) + 1.10 tpy (new) = 1.10 tpy
NPOC = 0.00 tpy (existing) + .81 tpy (new) = .81 tpy

Toxic Emissions

A Health Risk Assessment (HRA) is required when the emissions of toxic air contaminants (TACs) are at or exceed the trigger levels outlined in Regulation 2, Rule 5, Table 2-5-1. An HRA is not required, based on the toxic emissions for this source, summarized in Table 2.

Table 2. Toxic Emissions

TACs	Category	Total Emissions (lb/year)	Total Emissions (lb/hour)	Exceeding or at Reg. 2-5 Chronic Trigger Level? (Yes/No)	Exceeding or at Reg. 2-5 Acute Trigger Level? (Yes/No)
Isopropyl Alcohol	TAC - other	98	0.0471	No	No
Toluene	TAC - Other	140	0.0673	No	No
Xylene	TAC - Other	98	0.0471	No	No

Best Available Control Technology (BACT)

Per Regulation 2-2-301, BACT is triggered for any new or modified source with the potential to emit 10 pounds or more per highest day of POC, NPOC, NOx, CO, SO_2 or PM_{10}.

S-1 is not subject to BACT because POC emissions from the source are estimated to not exceed 10 lbs/day.

Offsets

Offsets must be provided for any new or modified source at a facility that emits more than 10 tons/year of POC or NOx per Regulation 2-2-302.

DRAFT

POC or NOx offsets are not applicable since the facility wide emissions are less than 10 tons per year.

Statement of Compliance

This owner/operator of source (S-1) is subject to and expected to comply with the following sections in Regulation 8, Rule 45:

- Section 301 for VOC limits;
- Section 303 for transfer efficiency;
- Section 308 for surface preparation and solvent loss minimization; and
- Section 316 for particulate filtration.

This permit application is not subject to CEQA (Section 2-1-311) because the evaluation is a ministerial action conducted using the fixed standards and objective measurements outlined in the Permit Handbook Chapter 5. The Procedures for Ministerial Evaluation (Section 2-1-427) and Criteria for Approval of Ministerial Permit Applications (Section 2-1-428) have been complied with in the determination that this application is exempt from CEQA.

There is a K-12 school located within 1,000 feet of this facility:

- Sunnybrae Elementary School
  1031 S Delaware St, San Mateo, CA 94402

It is therefore subject to the public notification requirements under California Health & Safety Code and the District Regulation 2, Rule 1, Section 412 due to the increase in the emissions from this project.

Before this project can be approved, a 30-day public comment period will be held. Notice describing the project and announcing the public comment period will be mailed to the parents of students attending the above school(s) and residential and business neighbors within 1,000 feet of the facility. The cost of preparing and distributing this notice will be paid by the applicant. All comments received will be summarized in this evaluation report.

National Emissions Standards for Hazardous Air Pollutants:
The District is not the delegated authority for the requirements of the Federal NESHAP for Paint Stripping and Miscellaneous Surface Coating Operation, Subpart HHHHHH (which includes auto body refinishing, painting and repair). To satisfy these requirements, the owner/operator shall comply with Permit Condition 24064.

The owner/operator is subject to the requirements of Title 17, CA Code of Regulations, Section 93112, ATCM for Emissions of Hexavalent Chromium and Cadmium from Motor Vehicle and Mobile Equipment Coatings. To satisfy these requirements, the owner/operator shall comply with Permit Condition 100058.

DRAFT

Conditions for S-1

Condition Number: 100002

The owner/operator of the source shall not exceed the following usage limits during any consecutive rolling twelve-month period:

- 500 Gallons of Auto Body Coating
- 200 Gallons of Auto Body Cleanup Solvent
  (Basis: Cumulative Increase)

Condition Number: 100003

The owner/operator shall:

1. Total net usage of coatings and the net usage of solvent on a monthly basis.
2. Total monthly records on a rolling 12-month basis.
3. Keep records at least two years from the date of creation.
4. Have records readily available to the District upon request.
   (Basis: Cumulative Increase)

Condition Number: 100058

The owner/operator shall not use coatings that contain cadmium or hexavalent chrome. (Basis: Title 17, CA Code of Regulations, Section 93112, ATCM for Motor Vehicle and Mobile Equipment Coatings)

Condition Number: 24064

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements (40 CFR Part 63), subpart HHHHHH, for the controlling of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) ('target Hazardous Air Pollutants') from Paint Stripping and Miscellaneous Surface Coating Operations (including motor vehicle/mobile equipment/miscellaneous surface coating operations):

1. The owner/operator shall perform an Initial Notification upon startup to the delegated authority: Director, Air and Toxics Division, EPA, Region IX, 75 Hawthorne St, San Francisco, CA 94105.

2. The owner/operator shall certify that the owner/operator is in compliance with the following provisions of the applicable NESHAP:
   a. Train/certify all painters on spray gun equipment selection, spray techniques, maintenance, and environmental compliance (40 CFR Part 63, section 63.11173(f)(2)(i)-(iv)).
   b. Install/operate filter technology on all spray booths/stations/enclosures to achieve at least 98% capture efficiency.
   c. Spray booths/stations used to refinish complete motor vehicles or mobile equipment must be fully enclosed and ventilated at negative pressure or up to

DRAFT

0.05 inches water gauge positive pressure for booths that have seals on all doors and other openings and an automatic pressure balancing system.

d. Spray booths/stations used to coat miscellaneous parts or products or vehicle subassemblies must have a full roof, at least three complete walls or side curtains, and is ventilated so that air is drawn into the booth.
e. Spray-applied coatings must be applied with a high volume, low-pressure (HVLP) spray gun, electrostatic application, airless or air-assisted airless spray gun, or an equivalent technology.
f. Paint spray gun cleaning must be done so that an atomized mist or spray of the cleaning solvent is not created outside a container that collects used gun cleaning solvent.
g. Train and certify all personnel who spray apply surface coatings no later than 180 days after hiring.

3. To demonstrate compliance with Parts 1 ,2 and 3, the owner/operator shall maintain the following records for five years from the date of creation and have the records readily available to the District upon request.
    a. Copies of Notifications submitted to EPA.
    b. Painter training certifications.
    c. Spray booth filter efficiency documentation.
    d. Spray gun transfer efficiency.
    e. Target HAP content information such as MSDS.
    f. Annual usage of MeCl for paint stripping, and written MeCl minimization plan if annual usage > 1 ton per year.
    g. Deviation and corrective action documentation.

4. The owner/operator may petition the Administrator for an exemption from Parts 1, 2 and 3, if it can demonstrate to the satisfaction of the Administrator that the coatings that contain compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) are not applied. The owner/operator shall have the Administrator's approval of the exemption readily available to the District for as long as the exemption is applicable.

    (Basis: 40 CFR part 63, subpart HHHHHH)

End of Conditions

Recommendation

The District has reviewed the material contained in the permit application for the proposed project and has made a preliminary determination that the project is expected to comply with all applicable requirements of District, state, and federal air quality-related regulations. The preliminary recommendation is to issue an Authority to Construct/Permit to Operate for the equipment listed below. However, the proposed source will be located within 1,000 feet of a school, which triggers the public notification

DRAFT

requirements of District Regulation 2-1-412. After the comments are received and reviewed, the District will make a final determination on the permit.

I recommend that the District initiate a public notice and consider any comments received prior to taking any final action on issuance of a Authority to Construct/Permit to Operate for the following source:

S-1 Auto Body Coating Operation

Prepared by: Vanessa Hodgson, Air Quality Technician Date: 12/31/2020

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