ENGINEERING EVALUATION

Facility ID No. 55
Lockheed Martin Corporation
1111 Lockheed Martin Way, Sunnyvale, CA 94089
Application Nos. 714744 and 720603

Background

Lockheed Martin Corporation (LMCO) is applying for a Permit to Operate for the following equipment:

S-5341 **Enclosed Solvent Cleaner**
Make: PBT Works, Model: CompaCLEAN III

S-5342 **Enclosed Solvent Cleaner**
Make: PBT Works, Model: MiniSWASH II

The equipment above was issued a Temporary Permit to Operate in accordance with the provisions of District Regulation 2-1-106 on October 25, 2024 (**Attachment #1**). This evaluation is to convert the Temporary Permit to Operate to a Permit to Operate.

The criteria pollutant from this process is precursor organic compounds (POC) from evaporated solvents. This pollutant is briefly discussed on the District's web site at www.baaqmd.gov. This evaluation report will discuss compliance of the proposed project with all applicable rules and regulations.

Emissions

VOC emissions are calculated based on the material usage and the VOC content of the materials used. The facility stated that each solvent cleaner will operate a maximum of one cycle/day and two cycles/week. Each solvent cleaner is entirely enclosed and solvent is recirculated through the system for reuse following each cycle. The facility/manufacturer estimate a loss of 100 mL per cycle for each solvent cleaner when loading/unloading materials from the solvent cleaner. Although the solvent will be diluted for use at each solvent cleaner, the emissions calculations assume that the concentrate is used.

S-5341 – Enclosed Solvent Cleaner - PBT Works CompaCLEAN III

Facility has stated that only "Vigon N 680 Concentrate" solvent will be used at S-5341. The Safety Data Sheet (SDS) provided by the facility indicates that the solvent has a VOC content of 4.85 lb/gal (concentrate). A review of the SDS did not show any presence of toxic air contaminants (TACs).

Vigon N 680 Concentrate daily usage = 100 ml/day / 0.0264 gal/day;
Daily VOC Emissions: 0.0264 gal/day * 4.85 lb VOC/gal = 0.13 lb VOC/day
Vigon N 680 Concentrate annual usage = 15 gallons/yr;
Daily VOC Emissions: 15 gal/yr * 4.85 lb VOC/gal = 72.8 lb VOC/yr

S-5342 – Enclosed Solvent Cleaner - PBT Works MiniSWASH II

Facility has stated that only "Vigon SC 200 Concentrate" or "Vigon SC 210 Concentrate" solvent will be used at S-5342. The Safety Data Sheet (SDS) provided by the facility indicates that the "Vigon SC 200 Concentrate" has a VOC content of 7.44 lb/gal (concentrate), and that the "Vigon SC 210 Concentrate" has a VOC content of 7.51 lb/gal. A review of the SDS did not show any presence of toxic air contaminants (TACs).

The calculations were done assuming the solvent with the higher VOC content (Vigon SC 210 Concentrate" was used:

Vigon SC 210 Concentrate daily usage = 100 ml/day / 0.0264 gal/day;
Daily VOC Emissions: 0.0264 gal/day * 7.5 lb VOC/gal = 0.20 lb VOC/day
Vigon SC 210 Concentrate daily usage = 15 gallons/yr;
Daily VOC Emissions: 15 gal/yr * 7.5 lb VOC/gal = 112.56 lb VOC/yr

Summary of the POC emissions from use of the solvent cleaners is provided as Table 1.

Table 1. POC Emissions from S-5341 and S-5342

Source	Total Emissions (lb/day)	Total Emissions (lb/yr)	Total Emissions (tons/yr)
S-5341	0.13	72.8	0.036
S-5342	0.20	112.6	0.056
Total	0.33	185.4	0.093

Plant Cumulative Increase

This project will emit 0.093 tpy of POC that will require offsets. Offsets for POC emissions will be provided at a ratio of 1.0 to 1.15. Table 2 summarizes the cumulative increase in BACT pollutant emissions that will result from this application.

Table 2. Plant Cumulative Emissions Increase, Post 4/5/91

Pollutant	Post 4/5/91 Cumulative Increase (TPY)		Current Project Cumulative Emissions Increase (TPY)		Offsets Provided from Banking Certificates (TPY)		Plant Cumulative Emissions Increase (TPY)
NO_x	0.000	+	0.000	-	0.000	=	0.000
POC	0.000	+	0.093	-	0.093	=	0.000
CO	25.170	+	0.000	-	0.000	=	25.170
PM_{10}	3.564	+	0.000	-	0.000	=	3.564
$PM_{2.5}$	0.032	+	0.000	-	0.000	=	0.032
SO_2	0.714	+	0.000	-	0.000	=	0.714

Health Risk Assessment (HRA)

Regulation 2-5 requires that the cumulative impacts from all related projects permitted within the last five years be included in the risk screening analysis. The facility had submitted five other applications in the past five years; Applications # 30296, 30372, 30618, 30981, 31564. Application #30296 was for an Emission Reduction Credit transfer and has no emissions associated with the application. Applications #30372, #30618, #30981, and #31564, were all for diesel engines for emergency backup generators. These projects are not considered to be related projects. Therefore, there were no related projects in the past five years. The project has no toxic air contaminants that exceed the toxic trigger levels in Table 2-5-1 in BAAQMD Regulation 2, Rule 5. Therefore a Health Risk Screening Analysis is not required.

Best Available Control Technology (BACT)

In accordance with 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}.

BACT for this source is presented in the current BAAQMD BACT/TBACT Workbook for Degreaser – Solvent Spray Booth, Document #54.3, Revision 1, dated 10/7/1991. For NOX, SO2, CO, and PM, no BACT standards exist. For POC and NPOC, BACT(2) is solvent spray cleaning in a hood, booth, or room vented to a control device with emissions controlled to overall capture/destruction efficiency of more than 90%. There are no BACT(1) standards.

S-5341 and S-5342 do not emit any criteria pollutant at a rate greater than 10 pounds per day and thus is not required to meet the BACT(1) or BACT(2) standards.

Offsets

Offset Requirements, POC and NOx (Section 2-2-302)

This section establishes emission offset requirements for POC and NOx at facilities that will have the potential to emit more than 10 tons per year of POC or NOx. If the facility will have the potential to emit more than 10 tons per year but less than 35 tons per year of NO_x or POC after the new or modified source is constructed, offsets must be provided at a 1:1 ratio for any un-offset cumulative increase in emissions at the facility. These offsets shall be provided by the District's Small Facility Banking Account unless the applicant owns offsets. Lockheed Martin is an existing synthetic minor facility that has agreed to limit POC emission to no more than 35 tons per year and NO_x emission to no more than 62 tons per year in its synthetic minor operation condition (#24784). The operation of S-5341 and S-5342 will result in an emission increase of 0.093 tpy of POC that must be offset. The offsets will be provided at a ratio of 1.0 to 1.15 using Banking Certificate #1455.

Offset Requirements, PM2.5, PM10, and Sulfur Dioxide (Section 2-2-303)

Since the potential to emit $PM_{2.5}$, PM_{10} or Sulfur Dioxide at the facility where these sources operate are each below 100 tons per year, these sources are not subject to the offset requirements of *Regulation 2-2-303*.

Statement of Compliance

The owner/operator is expected to comply with all applicable requirements. Key requirements are listed below:

Regulation 2, Rule 6, Section 310

LMCO is considered a Synthetic Minor Facility per Regulation 2-6-230. To ensure the facility's emissions remain below the thresholds to be considered a major facility, LMCO is subject to Synthetic Minor Condition #24784, which limits emissions of a single hazardous air pollutant (HAP) to 9.0 tons per year, cumulative HAP emissions to less than 23.0 tons per year, POC emissions to less than 35.0 tons per year, and NO_x emissions to less than 62 tons per year. As part of this permit application, Synthetic Minor Condition #24784 will be revised to update the list of sources covered by the Synthetic Minor Operating Permit. Permit Application #720603 is the associated Synthetic Minor Operating Permit Revision Application for this application.

Regulation 8, Rule 4

S-5341 and S-5342 are subject to BAAQMD Regulation 8, Rule 4, General Solvent and Surface Coating Operations.

The sources will comply with the requirements of Section 8-4-302.1, which restricts the emissions of general solvent and surface coating operations to 5 tons per year, unless they comply with the control requirements of Section 8-4-302.2.

The sources are expected to qualify with the Solvent Evaporative Loss Minimization requirements of Section 8-4-312.

The sources qualify for the limited exemption from the surface preparation standard in Section 8-4-313 per Section 8-4-116, which exempts the sources from the requirements because the sources will be used to clean circuit boards which are considered electrical and electronic components. The limit in Section 8-4-313 is the requirement to use solvent with a VOC content that does not exceed 50 g/l (0.42 lbs/gal).

Regulation 8, Rule 16

The sources are subject to BAAQMD Regulation 8, Rule 16, Solvent Cleaning. The sources are considered to be cold cleaners as per Section 8-16-204, and are therefore subject to the Cold Cleaner Requirements as per Section 8-16-303.

The sources are expected to comply with the General Operating Requirements as per 8-16-303.1 through proper operation and maintenance of the cold cleaner units.

The sources are expected to comply with the Cold Cleaner Operating Requirements as per 8-16-303.2, as both S-5341 and S-5342 are closed loop cold cleaners that only operate when it is fully enclosed and are designed to recover and recirculate solvent following each use. The solvent is recirculated through the system using pumps, and the facility has stated that S-5341 and S-5342 will be used to clean circuit boards (a non porous/absorbent material).

The sources are expected to comply with the Cold Cleaner General Equipment requirements as per 8-16-303.3, as both S-5341 and S-5342 are closed loop cold cleaners where the solvent is recovered and reused in the system, and cleaning/drying is only done when cover is closed. The facility will be required to have a label with instructions for proper operation of the cold cleaners readily posted by the proposed sources.

The sources are expected to comply with the requirements as per 8-16-303.4, as both S-5341 and S-5342 have an enclosed design where the door only opens when the dry material is entering/exiting the machine, as per 8-16-303.4.5.

The sources qualify for the limited exemption from Section 8-16-303.5 per Section 8-16-123, as the sources will be used to clean circuit boards which are considered electrical and electronic components. Therefore, the sources are exempt from the requirements as per 8-16-303.5. The limit in Section 8-4-303.5 is the requirement to use solvent with a VOC content that does not exceed 50 g/l (0.42 lbs/gal).

The facility is expected to comply with the recordkeeping provisions of Section 8-16-501.

California Environmental Quality Act (CEQA)
As per CEQA Article 18, Section 15301, this project qualifies for a categorical exemption as a project with involving negligible or no expansion of use. One of the ways a project can qualify for this categorical exemption is if the addition to existing structures do not result in an increase of more than; "50% of the floor area of the structures before the addition, or 2,500 square feet, whichever is less" or "10,000 square feet if … the area in which the project is not environmentally sensitive". This project includes only the installation of two cold cleaners within an existing building and therefore there will be no additions to any existing structures. Therefore, this project qualifies for the categorical exemption as per CEQA Article 18, Section 15301.

New Source Performance Standards (NSPS)
There is no applicable NSPS.

National Emissions Standards for Hazardous Air Pollutants (NESHAP)
There is no applicable NESHAP.

Prevention of Significant Deterioration (PSD)
This application is not part of a PSD project as defined in Regulation 2-2.

Public Notice, Schools and Overburdened Communities (Sections 2-1-412 and California Health & Safety Code *§42301.6)*

Pursuant to California Health & Safety Code §42301.6(a), prior to approving an application for a permit to construct or modify a source which is located within 1,000 feet from the outer boundary of a school site, the District shall prepare a public notice as detailed in §42301.6. §42301.9(a) defines a "school" as any public or private school used for the purposes of the education of more than 12 children in kindergarten or any grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in private homes. Using the GreatSchools.org website and searching with Google Maps, it has been determined that are no schools located within 1,000 feet of the facility.

Pursuant to District Regulation 2-1-412, prior to approving an application for a permit to construct or modify a source which is located within an Overburdened Community (OBC) and for which a Health Risk Assessment is required pursuant to Regulation 2-5-401, the District shall prepare a public notice as detailed in §42301.6. As per Regulation 2-1-243, an OBC is defined as an area located within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen) Version 4.0, as having an overall CalEnviroScreen score at or above the 70th percentile or within 1,000 feet of any such census tract. The facility is not located in an OBC.

Therefore the project is exempt from the public notice requirements as per Section 2-1-412 and California Health & Safety Code *§42301.6*.

Permit Conditions

Permit Condition #100533 for S-5341 and S-5342

1. The Owner/Operator of Cold Cleaners S-5341 and S-5342 shall not exceed the following usage limits during any consecutive twelve-month period:

    a. 15 gal/yr of Vigon N 680 Concentrate at S-5341
    b. 15 gal/yr of either Vigon SC 200 Concentrate or Vigon SC 210 Concentrate at S-5342.

    (Basis: Cumulative Increase)

2. The Owner/Operator of sources S-5341 and S-5342 may use solvent other than the material specified in Part 1 above, and/or usages in excess of those specified in Part 1 above, provided that the Owner/Operator can demonstrate that all of the following are satisfied:

    a. The total POC emissions from S-5341 does not exceed 72 pounds in any consecutive twelve-month period and the total POC emissions from S-5342 does not exceed 112 pounds in any consecutive 12 month period; and
    b. The use of these alternate materials does not increase toxic air contaminant (TAC) emissions above any acute and/or chronic TAC health risk assessment trigger level in Table 2-5-1 of Regulation 2, Rule 5. The owner/operator shall maintain records of any TAC component contents of each alternate material used and supporting mass emission calculations demonstrating TAC emissions do not exceed the acute and/or chronic TAC trigger levels in Table 2-5-1 of Regulation 2, Rule 5 by calculating TAC emissions on a pound per hour and pound per year basis, respectively. (Basis: Cumulative Increase)

3. To determine compliance with the above conditions, the Owner/Operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:
    a. Quantities of solvent used at each source on a monthly basis.
    b. If a material other than that specified in Part 1 above is used, POC and toxic component contents of each alternate material used; and mass emission calculations to demonstrate compliance with Part 2.b. on a monthly basis and 2.c. on a daily basis
    c. Monthly usage and/or daily emission calculations shall be totaled for each consecutive twelve-month period. (Basis: Cumulative Increase)

Permit Condition #24784

Permit Condition #24784 prior to Permit Application #714744

(Application 12514: Revision of Synthetic Minor Operating Permit. Decrease facility-wide POC limit from 50 to no more than 35 tpy. Limit facility-wide NOx emissions to 62 tpy versus limiting the amount of fuel fired. Include GDF and emergency standby engines in the Synthetic Minor Operating Permit.)

Lockheed Martin Space Systems Co., Plant #55, has a synthetic minor operating permit. This operating permit covers all sources existing at this facility on the date of issuance. The sources are listed below.

10 Vehicle Gasoline Dispensing
206 Wipe Cleaning Operation
211 Brush-Applied Coating Operation
212 Diesel Engine, Cummins model 6CT8.3/G, emergency standby abated by A-212 Catalyzed diesel particulate filter
322 Wipe Cleaning Operation
323 Wipe Cleaning Operation Bldg 103/E-3
324 Wipe Cleaning Operation Bldg 103/J-12
325 Wipe Cleaning Operation Bldg 103/K-6
328 Wipe Cleaning Operation Bldg 103/C-12
335 Wipe Cleaning Operation
336 Wipe cleaning Operation
338 Solvent Wipe Cleaning
406 Wipe Cleaning Operation Bldg 150/C-8
407 Mobile Freon Storage Tank/Hydrostatic Test (Bldg 104) [exempt]
1001 Wipe Cleaning Operation Bldg 076/E-7
1300 Semiconductor Fab, Bldg. 113
3001 Wipe Cleaning Operation - Bldg. 130
4107 Diesel Engine
4108 Diesel Engine
4109 Emergency Standby Diesel Generator Set
4303 Diesel Standby Diesel Generator, Caterpillar Model C4.4
4602 Emergency Standby Diesel Generator, Caterpillar Model C18
4901 STEAM BOILER [exempt]
5024 Wipe Cleaning Operation - Bldg 182
5104 FUME HOOD
5125 Wipe Cleaning Operation Bldg 151/A2-7
5126 Solvent Wipe Cleaning-Bldg 151/B-6
5127 Solvent Wipe Cleaning-Bldg 141/C-5
5128 Wipe Cleaning Operation Bldg 151/C-13
5129 Wipe Cleaning Operation Bldg 151A/X-8
5130 Solvent Wipe Cleaning-Bldg 151/G-11

5131 Wipe Cleaning Operation Bldg 151/K-2
5144 Peelcoat Cleaning/Coating Operation
5149 Paint Spray Booth B/151
5162 Glove Box Sandblast Unit abated by A-5162 Baghouse
5189 Wipe Cleaning Operation
5190 Cold Cleaner
5191 Cold Cleaner
5192 Cold Cleaner
5197 Solvent Wipe Cleaning
5207 Wipe Cleaning Operation Bldg 152/E-14
5208 Wipe Cleaning Operation Bldg 152/E-20
5209 Wipe Cleaning Operation Bldg 152
5211 Touchup Coating
5212 SOLVENT WIPE CLEANING
5216 Diesel Engine, Cummins model NT855G, emergency standby
5301 WATER BOILER [exempt]
5302 WATER BOILER [exempt]
5307 Wipe Cleaning Operation Bldg 153/C-8
5308 Wipe Cleaning Operation Bldg 153/D-2 & E-3
5315 Conformal coating of circuit boards with associated drying
5322 Coating Operation
5323 Paint Booth (M175542) B/153, J6
5326 Primer Spray Booth Portable Filtration Table abated by A-5326 Carbon Filters
5327 Wipe Cleaning Operation
5329 Wipe Cleaning
5330 Touchup Coating Operation
5332 Wipe Cleaning Operation
5333 Wipe Cleaning
5334 Wave Solder
5336 Firetube Boiler
5337 Diesel Engine, John Deere model 6076AF010, emergency standby
5338 Diesel Engine, John Deere model 6076AF010, emergency standby
5339 Natural Gas Fired Boiler, 400 BHP, 16.33 MMBtu/hr
5340 Emergency Standby Diesel Generator, Caterpillar Model 3512C ATAAC
5401 WATER BOILER [exempt]
5402 WATER BOILER [exempt]
5404 Emergency Standby Diesel Generator Set
5503 Wipe Cleaning Operation Bldg 155
5602 Touch-up/Repair Operation, Col. G-9
5603 Wipe Cleaning Operation
5604 Wipe Cleaning
5610 Diesel Engine, Cummins model NTA855G3, emergency standby
5615 Emergency Standby Generator
5618 Diesel Engine
5620 Emergency Standby Diesel Generator Set

5622 Emergency Standby Diesel Generator Set
5623 Emergency Generator Set
5624 Emergency Generator Set
5625 Emergency Standby Diesel Generator Set
5628 Natural Gas Fired Boiler,60 MMBtu/hr
5629 Natural Gas Fired Boiler, 60 MMBtu/hr
5630 Emergency Standby Diesel Generator Set
5631 Emergency Standby Diesel Generator Set
5632 Emergency Standby Diesel Generator Set
5633 Emergency Standby Diesel Generator Set, Perkins Model D175-2-C6.6
5634 Ajax Boiler
5635 Ajax Boiler
5636 Ajax Boiler
5637 Ajax Boiler
5638 Ajax Boiler
5639 Ajax Boiler
5640 Emergency Standby Diesel Generator
5641 Emergency Standby Diesel Generator, Caterpillar Model C9 ACERT
5701 Diesel Engine, Detroit Diesel model 12V92T, emergency standby
5702 Emergency Standby Diesel Engine
5703 Natural Gas Fired Boiler
5704 Cleaver-Brooks 350 HP Boiler
5705 Cleaver-Brooks 350 HP Boiler
5802 Wipe Cleaning Operation
5806 Emergency Engine Generator
5807 Emergency Engine Generator
5808 Emergency Engine Generator
5905 Wipe Cleaning Operation Bldg 153A
5906 Wipe Cleaning Operation Bldg 159/DX-1
5907 Wipe Cleaning Operation
5908 Wipe Cleaning Operation
5911 Heating System
5912 Spray Booth
5913 Manual Surface Coating
5914 Wipe Cleaning Operation
5915 Fiberglass Layup
5916 Resin Mixing/Kitting Hood
5917 Trim Area abated by A-5917 Dust Control System [exempt]
5919 Boiler, Gas Fired
5920 Diesel Engine, Caterpillar model 3508 STD, emergency standby
5921 Diesel Engine, Cummins model KTA-50-G1, emergency standby
5922 Emergency Engine Generator
5923 Boiler, Kewannee Model L3W-100-G
5924 Boiler
5925 Boiler, Fulton Model VMP 80

5926 Boiler
5927 Boiler
5928 Boiler
7023 Wipe Cleaning Operation Bldg 170/A-7
7025 Wipe Cleaning Operation Bldg 170/B-4
7026 Wipe Cleaning Operation Bldg 170/D-8
7027 Wipe Cleaning Operation Bldg 170/F-7 & F-8
7035 Adhesive Application Area, Col. C-8 7036 Batch Silicone Mixer [exempt]
7037 Batch Silicone Mixer [exempt]
7103 WATER BOILER [exempt]
7110 Emergency Diesel Standby Generator, Caterpillar Model C-18
7112 Diesel Engine, Caterpillar model 3508 STD, emergency standby
7113 Boiler (B-117, A-D2) [registered]
7114 Boiler (B-171, A-D2) [registered]
7115 Boiler (B-171, A-D2) [registered]
7116 Boiler (B-171, A-D2) [registered]
7162 Process Tanks 37 and 43 abated by A-7162 Washer 7 [exempt]
7163 Process Tanks 27 and 29 abated by A-7163 Washer 6 [exempt]
7164 Process Tanks 8 and 10 abated by A-7164 Washer 3 [exempt]
7165 Process Tank 52 abated by A-7165 Washer 1 [exempt]
7166 Process Tanks, 39, 48 and 41 abated by A-7166 Scrubber 4 [exempt]
7167 Process Tank 31 abated by A-7167 Scrubber 3 [exempt]
7168 Process Tanks 4 and 6 abated by A-7168 Scrubber 1 [exempt]
7189 Wipe Cleaning Operation
7192 Boiler 400 Hp
7193 Boiler 400 Hp
7194 Boiler 400 Hp
7196 Paint Booth with Electric Oven #2
7197 Paint Booth
7198 Paint Booth
7199 Paint Booth with Electric Oven #1
7201 Diesel Engine, John Deere model 6076TF001, emergency standby
7202 Emergency Standby Diesel Generator Set
7432 Emergency Standby Diesel Engine
7433 Emergency Standby Diesel Generator, Caterpillar Model C15
7603 Emergency Engine Generator
7604 Emergency Standby Diesel Generator, Caterpillar Model C9
8101 WATER BOILER [exempt]
8102 WATER BOILER [exempt]
8104 Wipe Cleaning Operation Bldg 181/B-6
8107 Paint Area with Curing Oven
8108 Wipe Cleaning Operation
8112 Wipe Cleaning Operation
8204 Spray Booth for Adhesive Coating Prep,(Acetone Wipe Cleaning)
8220 WATER BOILER [exempt]

8222 WATER BOILER [exempt]
8225 STEAM BOILER [exempt]
8226 WATER BOILER [exempt]
8227 MACHINE SHOP abated by A-8215 Dust Collector [exempt]
8234 Paint Booth [exempt]
8237 Wipe Cleaning Operation Bldg 182/F-16
8238 Wipe Cleaning Operation Bldg 182/F-23
8239 Wipe Cleaning Operation Bldg 182/H-12
8240 Wipe Cleaning Operation Bldg 182/H-15
8241 Wipe Cleaning Operation Bldg 182/H-27
8242 Wipe Cleaning Operation Bldg 182/J-23
8255 Cold Cleaner
8261 Bead Blast Operation abated by A-8261 Dust Collector for Blast Cabinet [exempt]
8262 Silicone Adhesive Application with Curing Oven
8265 Wipe Cleaning Operation
8266 Batch Silicone Mixer [exempt]
8267 Batch Silicone Mixer [exempt]
8268 Paint Touch-Up Operation
8278 Sealant Application
8279 Composite Fabrication, Curing and Cleaning
8280 Emergency Standby Engine
8281 Boiler
8302 Wipe Cleaning Operation
8602 Emergency Standby Diesel Generator Set
8801 Coating Operation
9502 Spray Booth
9504 Wipe Cleaning - Bldg 195B/Rm 144
9507 Emergency Diesel Generator Set
9519 Emergency Standby Diesel Generator Set
9520 Emergency Standby Diesel Generator Set
9521 Emergency Standby Diesel Generator Set
15100 Solvent Cleaning
30004 Wipe Cleaning
30012 Enclosed Coating Line
30016 Adhesive and Primer Application
30017 Paint Spray Booth - Coating
30024 Coating and Adhesive Booth
30026 Paint Booth 2B/159
30028 Solvent Cleaning Operation B/151
32100 Fugitive Sources [exempt]
32101 Fugitive Sources [exempt]

Permit conditions that are part of this operating permit but do not contribute to establishing the synthetic minor limits are attached. Lockheed Martin Space Systems Co. must comply with all conditions. The following conditions do not negate the applicability of any District, state, or federal requirements.
Synthetic Minor Conditions:

1. The owner/operator shall not emit more than 9 tons per any consecutive twelve-month period of any single hazardous air pollutant (HAP) from all sources combined.

(basis: Regulation 2-6-423.2)

2. The owner/operator shall not emit more than 23 tons per any consecutive twelve-month period of any combination of HAPs from all sources combined.

(basis: Regulation 2-6-423.2)

3. The owner/operator shall not emit more than 35 tons per any consecutive twelve-month period of Precursor Organic Compounds from all sources combined on a facility-wide basis.

(basis: Regulation 2-6-423.2)

4. The owner/operator shall not emit more than 62 tons per any consecutive twelve-month period of Oxides of Nitrogen as NO2 from all sources combined on a facility-wide basis.

(basis: Regulation 2-6-423.2)

5. Deleted

Conditions 6-10 Demonstration of Compliance for NOx and POC for Combustion Sources:

6. The owner/operator shall calculate NOx and POC emissions from combustion sources as follows:

Emissions shall be calculated using one or more of the following methods:

a. continuous emission monitor systems (CEMs),
b. source test data,

c. for boilers, portable analyzer test data. The portable analyzer must be operated and maintained as required by Appendix A "Portable Analyzer Protocol and Specifications" in the District's Regulation 9, Rule 7 "Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters" (4) (a) manufacturer's emissions data, or emission factors from AP-42, or the California Air Resources Board (CARB) [including CARB's Off-road Certification Database, CARB's "Risk Management Guidance for the Permitting of New Stationary Diesel-Fueled Engines, October 2000 (The Risk Reduction Plan)", the amendment and clarification to the Guidance, March 2002, and CARB's "California's Emissions Inventory For Off-Road Large Compression-Ignited (CI) Engines (> 25HP), January 2000" (The OFFROAD Model)], plus (b) fuel supplied or actual fuel usage, run time and/or energy produced. If emissions information is not available for a propane-fired engine, the Permit Holder may assume emissions are the same as for a natural gas fired engine.

The Permit Holder may use the NOx and POC emission factors for "commercial boilers" in Table 1.5-1 of AP-42 for propane boilers and for all other propane or LPG fired sources at the facility except internal combustion engines.

The Permit Holder may use the NOx and POC emission factors for "small boilers" in Tables 1.4-1 and 1.4-2, respectively, of AP-42 for natural gas fired boilers and for all other natural gas fired sources at the facility except internal combustion engines.

If an engine drives a generator and the generator output is measured, the Permit Holder may assume that it takes 1.34 horsepower-hours to produce 1 kW-hr of electricity. Emissions shall be estimated using accepted methodology that is appropriate to the emitting sources.
(basis: Regulation 2-6-423.2)

7. The owner/operator shall use the facility-wide gas meter to measure throughput of natural gas used by boilers and natural gas fired equipment.
(basis: Regulation 2-6-423.2)

8. The owner/operator shall install either a fuel meter or hour meter on all diesel fuel combustion sources that are subject to air permits.
(basis: Regulation 2-6-423.2)

9. The owner/operator shall maintain monthly logs and rolling 12-month total logs of the usage of diesel fuel, propane, natural gas and other liquid fuel when the fuel usage is used in an emission calculation.
(basis: Regulation 2-6-423.2)

10. The owner/operator shall calculate NOx and POC from all combustion sources combined on a rolling 12-month basis.
(basis: Regulation 2-6-423.2)

Condition 11
Demonstration of Compliance for POC and HAP for Solvent Evaporating Sources:

11. The owner/operator shall maintain District approved coating and solvent usage logs that list the mass emissions of Precursor Organic Compounds (POC) and HAPs from all solvent evaporating sources. The emissions of POC compounds shall be grouped in one of two categories: coating operations and solvent usage operations. Any material which cannot be categorized as a coating operation shall be categorized as a solvent usage operation.

    1) Records of the quantity of POC and HAP containing materials distributed through the central warehouse system shall be summarized on a monthly basis.
    2) Materials containing POCs and HAPs purchased directly for special projects shall be recorded on an event basis and summarized monthly.
    3) The quantities of materials used and the chemical composition information from the associated Material Safety Data Sheets (MSDS) shall be used to calculate emissions of POCs and HAPs.
    4) The emission factor for POCs and HAPs shall be one (1) pound of POC per pound of POC content and one (1) pound of HAP per pound of HAP content, respectively. 5) The quantities of materials collected for recycle, multiplied by the corresponding POC and HAP content of the material, shall be subtracted from the amount of material distributed to calculate the net consumption of POC and HAP containing materials.
    5) The year-to-date totals shall be derived each month by summing the totals for the previous twelve month period.

(basis: Regulation 2-6-423.2)

Condition 12
Demonstration of Compliance for POC and HAP for Fuel Dispensing Source

12. The owner/operator shall do all of the following for the Fuel Dispensing Source listed above:

    1) Maintain records of Material Safety Data Sheets (MSDS) or other product information identifying the POC content and individual HAP contents for each of the fuel or fuel mixtures, as appropriate, dispensed at the sources. 2) Keep a log of the quantity of the amount of each type of fuel dispensed (or received) at the source, summarized on a monthly basis.
    2) Calculate monthly emissions of POC (as gasoline) and combined HAP (as benzene) from each source, assuming that emissions of gasoline vapors occurring during the loading, breathing, refueling and spillage are 1.52 pounds of gasoline per 1,000 gallons dispensed (or received) and 7.50 pounds of benzene per million gallons dispensed (or received).
    3) Calculate POC and combined HAP (as benzene) emissions on a rolling 12-month basis for the source.

(basis: Regulation 2-6-423.2)

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Conditions 21-22
Monthly and Annual Emissions and Non-Compliance Reporting

21. The owner/operator shall calculate and maintain records on a monthly basis of the quantities of NOx, POC, and HAP emitted into the atmosphere as required for sources identified in the SMOP. Within 30 days of the end of each month, the NOx, POC, and HAP emissions must be totaled for the last consecutive 12-month period to ensure compliance with parts 1 - 5. The owner/operator shall keep all the information required to calculate NOx, POC, and HAP emissions for at least five years, and shall make those records available for review during normal business hours by the District's representatives.
(basis: Regulation 2-6-423.2)

22. The Owner/Operator shall prepare an annual emissions report. The report shall contain the following items for the year ending June 30:

    1) Monthly report on each HAP and total combined HAP emissions for the rolling 12-month period.
    2) Monthly report on total POC emissions for the rolling 12-month period.
    3) Monthly report on NOx emissions for the rolling 12-month period.

This report shall be submitted to the Director of Compliance and Enforcement by August 31 of each year.
(basis: Regulation 2-6-423.2)

Permit Condition #24784 following Permit Application #714744

(Application 12514: Revision of Synthetic Minor Operating Permit. Decrease facility-wide POC limit from 50 to no more than 35 tpy. Limit facility-wide NOx emissions to 62 tpy versus limiting the amount of fuel fired. Include GDF and emergency standby engines in the Synthetic Minor Operating Permit.)

(Application #714744 and #720603: Revision of Synthetic Minor Operating Permit. Updated list of sources and minor grammatical corrections)

Lockheed Martin Space Systems Co., Plant #55, has a synthetic minor operating permit. This operating permit covers all sources existing at this facility on the date of issuance. The sources are listed below.

10 Vehicle Gasoline Dispensing
206 Wipe Cleaning Operation
211 Brush-Applied Coating Operation
212 Diesel Engine, Cummins model 6CT8.3/G, emergency standby abated by A-212 Catalyzed diesel particulate filter
322 Wipe Cleaning Operation
323 Wipe Cleaning Operation Bldg 103/E-3
324 Wipe Cleaning Operation Bldg 103/J-12
325 Wipe Cleaning Operation Bldg 103/K-6
328 Wipe Cleaning Operation Bldg 103/C-12
335 Wipe Cleaning Operation
336 Wipe cleaning Operation
338 Solvent Wipe Cleaning
406 Wipe Cleaning Operation Bldg 150/C-8
~~407 Mobile Freon Storage Tank/Hydrostatic Test (Bldg 104) [exempt]~~
1001 Wipe Cleaning Operation Bldg 076/E-7
1300 Semiconductor Fab, Bldg. 113
3001 Wipe Cleaning Operation - Bldg. 130
3603 Portable Turbine Generator
4107 Diesel Engine
4108 Diesel Engine
4109 Emergency Standby Diesel Generator Set
4303 Diesel Standby Diesel Generator, Caterpillar Model C4.4
4602 Emergency Standby Diesel Generator, Caterpillar Model C18
4901 STEAM BOILER ~~[exempt]~~ [registered]
5024 Wipe Cleaning Operation - Bldg 182
5104 FUME HOOD
5125 Wipe Cleaning Operation Bldg 151/A2-7
5126 Solvent Wipe Cleaning-Bldg 151/B-6
5127 Solvent Wipe Cleaning-Bldg 141/C-5
5128 Wipe Cleaning Operation Bldg 151/C-13

5129 Wipe Cleaning Operation Bldg 151A/X-8
5130 Solvent Wipe Cleaning-Bldg 151/G-11
5131 Wipe Cleaning Operation Bldg 151/K-2
5144 Peelcoat Cleaning/Coating Operation
5149 Paint Spray Booth B/151
5162 Glove Box Sandblast Unit abated by A-5162 Baghouse
5189 Wipe Cleaning Operation
5190 Cold Cleaner
5191 Cold Cleaner
5192 Cold Cleaner
5197 Solvent Wipe Cleaning
5207 Wipe Cleaning Operation Bldg 152/E-14
5208 Wipe Cleaning Operation Bldg 152/E-20
5209 Wipe Cleaning Operation Bldg 152
5211 Touchup Coating
5212 SOLVENT WIPE CLEANING
~~5216 Diesel Engine, Cummins model NT855G, emergency standby~~
5301 WATER BOILER ~~[exempt]~~ [registered]
5302 WATER BOILER ~~[exempt]~~ [registered]
5307 Wipe Cleaning Operation Bldg 153/C-8
5308 Wipe Cleaning Operation Bldg 153/D-2 & E-3
5315 Conformal coating of circuit boards with associated drying
5322 Coating Operation
5323 Paint Booth (M175542) B/153, J6
5326 Primer Spray Booth Portable Filtration Table abated by A-5326 Carbon Filters
5327 Wipe Cleaning Operation
5329 Wipe Cleaning
5330 Touchup Coating Operation
5332 Wipe Cleaning Operation
5333 Wipe Cleaning
5334 Wave Solder
5336 Firetube Boiler
5337 Diesel Engine, John Deere model 6076AF010, emergency standby
5338 Diesel Engine, John Deere model 6076AF010, emergency standby
5339 Natural Gas Fired Boiler, 400 BHP, 16.33 MMBtu/hr
5340 Emergency Standby Diesel Generator, Caterpillar Model 3512C ATAAC
5341 Enclosed Solvent Cleaner
5342 Enclosed Solvent Cleaner
5401 WATER BOILER ~~[exempt]~~ [registered]
5402 WATER BOILER ~~[exempt]~~ [registered]
5404 Emergency Standby Diesel Generator Set
5503 Wipe Cleaning Operation Bldg 155
5602 Touch-up/Repair Operation, Col. G-9
5603 Wipe Cleaning Operation
5604 Wipe Cleaning

5610 Diesel Engine, Cummins model NTA855G3, emergency standby
5615 Emergency Standby Generator
5618 Diesel Engine
5620 Emergency Standby Diesel Generator Set
5622 Emergency Standby Diesel Generator Set
5623 Emergency Generator Set
5624 Emergency Generator Set
5625 Emergency Standby Diesel Generator Set
5628 Natural Gas Fired Boiler,60 MMBtu/hr
5629 Natural Gas Fired Boiler, 60 MMBtu/hr
5630 Emergency Standby Diesel Generator Set
5631 Emergency Standby Diesel Generator Set
5632 Emergency Standby Diesel Generator Set
5633 Emergency Standby Diesel Generator Set, Perkins Model D175-2-C6.6
5634 Ajax Boiler [registered]
5635 Ajax Boiler [registered]
5636 Ajax Boiler [registered]
5637 Ajax Boiler [registered]
5638 Ajax Boiler [registered]
5639 Ajax Boiler [registered]
~~5640 Emergency Standby Diesel Generator~~
5641 Emergency Standby Diesel Generator, Caterpillar Model C9 ACERT
5701 Diesel Engine, Detroit Diesel model 12V92T, emergency standby
5702 Emergency Standby Diesel Engine
5703 Natural Gas Fired Boiler
5704 Cleaver-Brooks 350 HP Boiler
5705 Cleaver-Brooks 350 HP Boiler
5802 Wipe Cleaning Operation
5806 Emergency Engine Generator
5807 Emergency Engine Generator
5808 Emergency Engine Generator
5809 Emergency Standby Diesel Generator Set
5905 Wipe Cleaning Operation Bldg 153A
5906 Wipe Cleaning Operation Bldg 159/DX-1
5907 Wipe Cleaning Operation
5908 Wipe Cleaning Operation
5911 Heating System
5912 Spray Booth
5913 Manual Surface Coating
5914 Wipe Cleaning Operation
5915 Fiberglass Layup
5916 Resin Mixing/Kitting Hood
5917 Trim Area abated by A-5917 Dust Control System [exempt]
5919 Boiler, Gas Fired
5920 Diesel Engine, Caterpillar model 3508 STD, emergency standby

~~5921 Diesel Engine, Cummins model KTA-50-G1, emergency standby~~
5922 Emergency Engine Generator
5923 Boiler, Kewannee Model L3W-100-G [registered]
5924 Boiler [registered]
5925 Boiler, Fulton Model VMP 80 [registered]
5926 Boiler [registered]
5927 Boiler [registered]
5928 Boiler [registered]
7023 Wipe Cleaning Operation Bldg 170/A-7
7025 Wipe Cleaning Operation Bldg 170/B-4
7026 Wipe Cleaning Operation Bldg 170/D-8
7027 Wipe Cleaning Operation Bldg 170/F-7 & F-8
7035 Adhesive Application Area, Col. C-8 7036 Batch Silicone Mixer [exempt]
7036 Batch Silicone Mixer [exempt]
7037 Batch Silicone Mixer [exempt]
7103 WATER BOILER ~~[exempt]~~ [registered]
7110 Emergency Diesel Standby Generator, Caterpillar Model C-18
7112 Diesel Engine, Caterpillar model 3508 STD, emergency standby
7113 Boiler (B-117, A-D2) [registered]
7114 Boiler (B-171, A-D2) [registered]
7115 Boiler (B-171, A-D2) [registered]
7116 Boiler (B-171, A-D2) [registered]
7162 Process Tanks 37 and 43 abated by A-7162 Washer 7 [exempt]
7163 Process Tanks 27 and 29 abated by A-7163 Washer 6 [exempt]
7164 Process Tanks 8 and 10 abated by A-7164 Washer 3 [exempt]
7165 Process Tank 52 abated by A-7165 Washer 1 [exempt]
7166 Process Tanks, 39, 48 and 41 abated by A-7166 Scrubber 4 [exempt]
7167 Process Tank 31 abated by A-7167 Scrubber 3 [exempt]
7168 Process Tanks 4 and 6 abated by A-7168 Scrubber 1 [exempt]
7189 Wipe Cleaning Operation
7192 Boiler 400 Hp
7193 Boiler 400 Hp
7194 Boiler 400 Hp
7196 Paint Booth with Electric Oven #2
7197 Paint Booth
7198 Paint Booth
7199 Paint Booth with Electric Oven #1
7201 Diesel Engine, John Deere model 6076TF001, emergency standby
~~7202 Emergency Standby Diesel Generator Set~~
7432 Emergency Standby Diesel Engine
7433 Emergency Standby Diesel Generator, Caterpillar Model C15
7603 Emergency Engine Generator
7604 Emergency Standby Diesel Generator, Caterpillar Model C9
8101 WATER BOILER ~~[exempt]~~ [registered]
8102 WATER BOILER ~~[exempt]~~ [registered]

8104 Wipe Cleaning Operation Bldg 181/B-6
8107 Paint Area with Curing Oven
8108 Wipe Cleaning Operation
8112 Wipe Cleaning Operation
8113 Emergency Standby Diesel Generator Set (Bldg 181)
8204 Spray Booth for Adhesive Coating Prep,(Acetone Wipe Cleaning)
8220 WATER BOILER ~~[exempt]~~ [registered]
8222 WATER BOILER ~~[exempt]~~ [registered]
8225 STEAM BOILER ~~[exempt]~~ [registered]
8226 WATER BOILER ~~[exempt]~~ [registered]
8227 MACHINE SHOP abated by A-8215 Dust Collector [exempt]
8234 Paint Booth [exempt]
8237 Wipe Cleaning Operation Bldg 182/F-16
8238 Wipe Cleaning Operation Bldg 182/F-23
8239 Wipe Cleaning Operation Bldg 182/H-12
8240 Wipe Cleaning Operation Bldg 182/H-15
8241 Wipe Cleaning Operation Bldg 182/H-27
8242 Wipe Cleaning Operation Bldg 182/J-23
8255 Cold Cleaner
8261 Bead Blast Operation abated by A-8261 Dust Collector for Blast Cabinet [exempt]
8262 Silicone Adhesive Application with Curing Oven
8265 Wipe Cleaning Operation
8266 Batch Silicone Mixer [exempt]
8267 Batch Silicone Mixer [exempt]
8268 Paint Touch-Up Operation
8278 Sealant Application
8279 Composite Fabrication, Curing and Cleaning
8280 Emergency Standby Engine
8281 Boiler [registered]
8302 Wipe Cleaning Operation
8602 Emergency Standby Diesel Generator Set
8801 Coating Operation
9502 Spray Booth
9504 Wipe Cleaning - Bldg 195B/Rm 144
9507 Emergency Diesel Generator Set
9519 Emergency Standby Diesel Generator Set
9520 Emergency Standby Diesel Generator Set
9521 Emergency Standby Diesel Generator Set
9522 Boiler (B195 b Roof) [registered]
15100 Solvent Cleaning
30004 Wipe Cleaning
30012 Enclosed Coating Line
30016 Adhesive and Primer Application
30017 Paint Spray Booth - Coating
30024 Coating and Adhesive Booth

30026 Paint Booth 2B/159
30028 Solvent Cleaning Operation B/151
30029 Portable Emergency Diesel Generator (stored near Bldg 163)
30030 Portable Emergency Diesel Generator (stored near Bldg 163)
32100 Fugitive Sources [exempt]
32101 Fugitive Sources [exempt]

Permit conditions that are part of this operating permit but do not contribute to establishing the synthetic minor limits are attached. Lockheed Martin Space Systems Co. must comply with all conditions. The following conditions do not negate the applicability of any District, state, or federal requirements.

Synthetic Minor Conditions:

1. The owner/operator shall not emit more than 9 tons per any consecutive twelve-month period of any single hazardous air pollutant (HAP) from all sources combined.

(basis: Regulation 2-6-423.2)

2. The owner/operator shall not emit more than 23 tons per any consecutive twelve-month period of any combination of HAPs from all sources combined.

(basis: Regulation 2-6-423.2)

3. The owner/operator shall not emit more than 35 tons per any consecutive twelve-month period of Precursor Organic Compounds from all sources combined on a facility-wide basis.

(basis: Regulation 2-6-423.2)

4. The owner/operator shall not emit more than 62 tons per any consecutive twelve-month period of Oxides of Nitrogen as NO2 from all sources combined on a facility-wide basis.

(basis: Regulation 2-6-423.2)

5. Deleted

Conditions 6-10 Demonstration of Compliance for NOx and POC for Combustion Sources:

6. The owner/operator shall calculate NOx and POC emissions from combustion sources as follows:

Emissions shall be calculated using one or more of the following methods:

a. continuous emission monitor systems (CEMs),
b. source test data,
c. for boilers, portable analyzer test data. The portable analyzer must be operated and maintained as required by Appendix A "Portable Analyzer Protocol and Specifications" in the District's Regulation 9, Rule 7 "Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters" (4) (a) manufacturer's emissions data, or emission factors from AP-42, or the California Air Resources Board (CARB) [including CARB's Off-road Certification Database, CARB's "Risk Management Guidance for the Permitting of New Stationary Diesel-Fueled Engines, October 2000 (The Risk Reduction Plan)", the amendment and clarification to the Guidance, March 2002, and CARB's "California's Emissions Inventory For Off-Road Large Compression-Ignited (CI) Engines (> 25HP), January 2000" (The OFFROAD Model)], plus (b) fuel supplied or actual fuel usage, run time and/or energy produced. If emissions information is not available for a propane-fired engine, the Permit Holder may assume emissions are the same as for a natural gas fired engine.

The Permit Holder may use the NOx and POC emission factors for "commercial boilers" in Table 1.5-1 of AP-42 for propane boilers and for all other propane or LPG fired sources at the facility except internal combustion engines.

The Permit Holder may use the NOx and POC emission factors for "small boilers" in Tables 1.4-1 and 1.4-2, respectively, of AP-42 for natural gas fired boilers and for all other natural gas fired sources at the facility except internal combustion engines.

If an engine drives a generator and the generator output is measured, the Permit Holder may assume that it takes 1.34 horsepower-hours to produce 1 kW-hr of electricity. Emissions shall be estimated using accepted methodology that is appropriate to the emitting sources.
(basis: Regulation 2-6-423.2)

7. The owner/operator shall use the facility-wide gas meter to measure throughput of natural gas used by boilers and natural gas fired equipment.

(basis: Regulation 2-6-423.2)

8. The owner/operator shall install either a fuel meter or hour meter on all diesel fuel combustion sources that are subject to air permits.

(basis: Regulation 2-6-423.2)

9. The owner/operator shall maintain monthly logs and rolling 12-month total logs of the usage of diesel fuel, propane, natural gas and other liquid fuel when the fuel usage is used in an emission calculation.

(basis: Regulation 2-6-423.2)

10. The owner/operator shall calculate NOx and POC from all combustion sources combined on a rolling 12-month basis.

(basis: Regulation 2-6-423.2)

Condition 11
Demonstration of Compliance for POC and HAP for Solvent Evaporating Sources:

11. The owner/operator shall maintain District approved coating and solvent usage logs that list the mass emissions of Precursor Organic Compounds (POC) and HAPs from all solvent evaporating sources. The emissions of POC compounds shall be grouped in one of two categories: coating operations and solvent usage operations. Any material which cannot be categorized as a coating operation shall be categorized as a solvent usage operation.

    1) Records of the quantity of POC and HAP containing materials distributed through the central warehouse system shall be summarized on a monthly basis.
    2) Materials containing POCs and HAPs purchased directly for special projects shall be recorded on an event basis and summarized monthly.
    3) The quantities of materials used and the chemical composition information from the associated Material Safety Data Sheets (MSDS) shall be used to calculate emissions of POCs and HAPs.
    4) The emission factor for POCs and HAPs shall be one (1) pound of POC per pound of POC content and one (1) pound of HAP per pound of HAP content, respectively.
    5) The quantities of materials collected for recycle, multiplied by the corresponding POC and HAP content of the material, shall be subtracted from the amount of material distributed to calculate the net consumption of POC and HAP containing materials.
    ~~5)~~6) The year-to-date totals shall be derived each month by summing the totals for the previous twelve month period.

(basis: Regulation 2-6-423.2)

Condition 12
Demonstration of Compliance for POC and HAP for Fuel Dispensing Source

12. The owner/operator shall do all of the following for the Fuel Dispensing Source listed above:

    1) Maintain records of Material Safety Data Sheets (MSDS) or other product information identifying the POC content and individual HAP contents for each of the fuel or fuel mixtures, as appropriate, dispensed at the sources.
    2) Keep a log of the quantity of the amount of each type of fuel dispensed (or received) at the source, summarized on a monthly basis.

~~2)~~3) Calculate monthly emissions of POC (as gasoline) and combined HAP (as benzene) from each source, assuming that emissions of gasoline vapors occurring during the loading, breathing, refueling and spillage are 1.52 pounds of gasoline per 1,000 gallons dispensed (or received) and 7.50 pounds of benzene per million gallons dispensed (or received).

~~3)~~4) Calculate POC and combined HAP (as benzene) emissions on a rolling 12-month basis for the source.

(basis: Regulation 2-6-423.2)

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Conditions 21-22
Monthly and Annual Emissions and Non-Compliance Reporting

21. The owner/operator shall calculate and maintain records on a monthly basis of the quantities of NOx, POC, and HAP emitted into the atmosphere as required for sources identified in the SMOP. Within 30 days of the end of each month, the NOx, POC, and HAP emissions must be totaled for the last consecutive 12-month period to ensure compliance with parts 1 - 5. The owner/operator shall keep all the information required to calculate NOx, POC, and HAP emissions for at least five years, and shall make those records available for review during normal business hours by the District's representatives.

(basis: Regulation 2-6-423.2)

22. The Owner/Operator shall prepare an annual emissions report. The report shall contain the following items for the year ending June 30:

    1) Monthly report on each HAP and total combined HAP emissions for the rolling 12-month period.
    2) Monthly report on total POC emissions for the rolling 12-month period.
    3) Monthly report on NOx emissions for the rolling 12-month period.

This report shall be submitted to the Director of Compliance and Enforcement by August 31 of each year.
(basis: Regulation 2-6-423.2)

End of Conditions

Recommendation

I recommend that the District issue a Permit to Operate for the following:

S-5341 **Enclosed Solvent Cleaner**
Make: PBT Works, Model: CompaCLEAN III

S-5342 **Enclosed Solvent Cleaner**
Make: PBT Works, Model: MiniSWASH II

By: _____ Date: 2/24/25

Perry Ng
Senior Air Quality Engineer

Attachment #1 – Temporary Permit to Operate

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

October 25, 2024

Lockheed Martin Corporation
1111 Lockheed Martin Way
Sunnyvale, CA 94089

Attention: **Kraig Kurucz**

Application Number: **714744**
Plant Number: 55
Equipment Location :
Same as Above

Dear Mr. Kurucz:

Subject: TEMPORARY PERMIT TO OPERATE

We are pleased to inform you that your application is now complete and has qualified for accelerated permitting in accordance with the provisions of Regulation 2-1-106 as per the below:

- The solvent cleaners will only emit POC. Based on the information provided, each of the solvent cleaners will have a maximum emission rate of 0.2 lb POC/day. Therefore, the sources will not have the potential to emit POC, NPOC, NOx, SO2, PM2.5, PM10, and/or CO in an amount of more than 10 lbs/day;
- The SDSs for the proposed solvents did not show the presence of any toxic air contaminants (TACs). Therefore, the source will not have the potential to emit any TACs in an amount that exceeds any of the trigger levels set for in Table 2-5-1 of District Regulation 2-5, determined without taking into account the effect of any abatement device or equipment;
- The source is not a diesel engine;
- The source is not subject to the Public Notice Requirements as per District Regulation 2-1-412;
- The application is not for the replacement of abatement equipment;
- The application is not for an alteration of an existing source;
- The facility has paid all applicable permit application fees for this application.

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With your assistance, the District will issue a Permit to Operate to you as soon as possible. In the interim you may start up the equipment described below and this letter will serve as your temporary Permit to Operate.

S-5341 – Solvent Cleaning Operation
S-5342 – Solvent Cleaning Operation

This completeness determination and final decision date may be revised if you submit new information indicating a significant change in the project design, use rate or other factors which will influence emissions. This Temporary Permit to Operate shall cease to be effective upon final action by the APCO under Section 2-1-408 (or if the permit application is canceled or withdrawn prior to such final action).

Please include your application number with any correspondence with the District. If you have any questions on this matter, please call **Perry Ng at (415) 749-4910** or contact him by email at **png@baaqmd.gov**.

Very truly yours

Pamela J. Leong
Director of Engineering

by Brenda Cabral
Air Quality Engineering Manager