Lane Regional Air Protection Agency Simple Air Contaminant Discharge Permit

Review Report

Horizon Prestain, Inc.

41 North Danebo Avenue Eugene, OR 97402

Source Information:

SIC	2599 Furniture and Fixtures NEC
NAICS	337127

Source Categories (LRAPA Title 37, Table 1)	B:69. Surface coating operations > 250 gallons/mo
Public Notice Category	II

Compliance and Emissions Monitoring Requirements:

Unassigned emissions	Ν
Emission credits	N
Compliance schedule	N
Source test [date(s)]	N

<u>.</u>	
COMS	N
CEMS	N
Ambient monitoring	N

Reporting Requirements

Annual report (due date)	Mar 15
Emission fee report (due date)	Mar 15
SACC (due date)	N
Quarterly report (due date)	N

Monthly report (due dates)	Ν
Excess emissions report	Y
Other reports	N

Air Programs

NSPS (list subparts)	N
NESHAP (list subparts)	N
CAM	N
Regional Haze (RH)	N
Synthetic Minor (SM)	N
Part 68 Risk Management	N
Title V	N
ACDP (SIP)	N
Major HAP Source	N
Federal Major Source	N
New Source Review (NSR)	N
Prevention of Significant	N
Deterioration (PSD)	
Acid Rain	N
Cleaner Air Oregon (CAO)	N
TACT	N

REVIEW REPORT

Permitting

Permittee Identification:

1. Horizon Prestain Inc. is located at 41 North Danebo Avenue, Eugene, OR 97402

Permitting Action

2. The proposed permit is a renewal of an existing Simple Air Contaminant Discharge Permit (ACDP) that was issued on August 19, 2014 and was originally scheduled to expire on August 19, 2019. The facility operates a process listed in LRAPA Regulations Title 37, Table 1, Part B.69 – Surface coating operations whose actual or expected usage is greater than 250 gallons per month and is, therefore, required to have an ACDP. The primary reason for the permit action is to renew the expired permit. The permit is classified in the Simple "low" fee category (per LRAPA 37-0064(2)(a)(B)) because the facility's actual VOC emissions are less than 10 tons/year. The Simple "low" ACDP fee category is applied due to the facility's request to be permitted to use more than 250 gallons of VOC and HAP containing materials a month. The existing ACDP remains in effect until final action is taken on the renewal application (#64798, rec'd Feb. 4, 2019, updated) because the facility submitted a timely and complete application for renewal. The facility has requested renewal without any changes to their existing permit.

Attainment Status

- 3. The facility is located in an attainment area for NO₂ (nitrogen dioxide), Pb (lead), O₃ (lead), SO₂ (sulfur dioxide) and PM_{2.5} (particulate matter ≤ 2.5 micrometers (µm) in diameter), and the Eugene/Springfield Air Quality Maintenance Area for PM₁₀ (particulate matter ≤ 10 µm in diameter) and CO (carbon monoxide).
- 4. The facility is not located within 10 kilometers of Three Sisters Wilderness Class I Air Quality Protection Area and facility emissions are less than the significant emission rate (SER).

Source Description

Overview and General Background Information

- 5. Horizon Prestain, Inc. (also dba Horizon Painting) operates a surface coating and woodworking operation in Eugene, Oregon. The facility primarily prepares and surface coats wood panels/lumber for the building & fabrication industries, but also produces custom woodworking products. The emissions units at the facility include one (1) coating machine, two (2) paint booths, 4 spray guns (1 HVLP and 3 airless) and a baghouse which controls particulate emissions from sanding and woodworking operations. In the 2008 permit renewal, the facility requested allowance for three (3) paint booths and one drying room, but the third booth and drying room were never installed. (See NC-203534-A08) The current permit reflects the presence of only two (2) paint booths. The facility typically operates approximately 2,080 hours per year (8 hours per day, 5 days per week, and 52 weeks per year) but can operate a maximum of 2600 hours a year (10 hours per day, 5 days per week, and 52 weeks per year) based on seasonal and production variability (MLog#62999).
- 6. The facility's original permit was issued as "Minimal" source permit (< 5 tons of PM and < 10 tons of VOC) on March 25, 2003 to Horizon Painting, Inc. which also did business as Willamette Valley Sandblasting. The facility's name was changed from Horizon Painting, Inc to Horizon Prestain, Inc. with the 2008 permit renewal. The Permit Addendum No. 1 issued May 8, 2009 changed the facility's permit from a Minimal ACDP to a Simple "Low" ACDP.</p>

Construction

date

NA

NA

NA

1996

7. No changes have been made to the facility since the last permit renewal issued August 19, 2014.

98.2% Eff.

98.2% Eff.

Paint Booth Filters

Sander Baghouse

NA

S5E-BH

Devices and Processes Description	Device ID	Construction date	Pollution Control Device (PCD) Description	PCD ID
Panel Coating Machine (1) (Stainer)	6F-SPCM	Pre 2001	None	NA
Bleeker Bros. Spray Paint Booth #1	1A-SB1	Pre 2001	Paint Booth Filters	NA

2B-SB2

5E-BH

Process Devices, Emission Units and Control Devices:

Compliance History

Murphy Rodgers Baghouse for Sander

Binks Spray Paint Booth #2

8. An inspection/review (PCADs #2373; Jan. 30, 2018) of the facility's 2017 Annual Report found the facility to be not in compliance with Condition 9: Monitoring and Reporting requirements for failure to calculate VOC emissions using a 12-month rolling total. The facility requested time to develop a database for reporting 12-month rolling emission totals from VOC and HAP containing materials used at the facility.

Pre 2007

1996

- 9. An inspection/review (PCADs #2551; Mar. 20, 2019) of the facility's 2018 Annual Report found the facility to be not in compliance with Condition 9: Monitoring and Reporting requirements due to failure to submit the annual report by March 15th (The facility requested additional time on March 15, 2019 due to outstanding SDS data; Annual Report rec'd Mar. 19, 2019) and for failure to calculate VOC emissions using 12-month rolling totals. An LRAPA inspector and permit writer met with facility's managers and consultant on April 2, 2019 (PCADs #2556) to explain requirements for calculating and reporting 12-month rolling emission totals from VOC and HAP containing materials used at the facility. The facility indicated they would provide 12-month rolling totals with the 2019 annual report. A revised 2018 Annual Report which included true 12-month rolling emissions totals was submitted to LRAPA on Sept. 13, 2019.
- 10. The facility was inspected on April 2, 2019 (PCADs # 2556) and found to be in compliance with recordkeeping requirements for tracking monthly product usage, product storage and spray-booth filter replacements.
- 11. During the prior permit period there were no complaints recorded for this facility. Two complaints were received in the past permit terms (Complaint #14815; rec'd Mar. 7, 2007 and #6381; rec'd July 8, 1999).
- 12. No enforcement actions have been taken against this facility since the last permit renewal.

Emissions

Plant Site Emission Limits (PSELs):

13. The following annual (rolling 12-month) PSELs are detailed in the permit (all values are in tons per year):

Annual Plant Site Emission Limits (PSELs)

(tons per year)

Source	PM	PM ₁₀	PM _{2.5}	VOC	Single HAP	Combined HAPs
Totals (tons per year)	24	14	9	39	9	24

- a. The proposed PSELs for all pollutants that are emitted above the de minimis levels defined in LRAPA Title 12 are equal to the Generic PSEL in accordance with LRAPA 37-0064(3)(b) and the netting basis is zero in accordance with LRAPA 42-0040(2).
- b. PSELs for CO, NOx, SO₂, and GHGs are not included in this permit because annual actual emissions of these pollutants are less than the respective de minimis levels defined in LRAPA Title 12.
- 14. PSEL Monitoring: The facility is required to determine compliance with the VOC and HAP PSELs by recording total monthly usage (in gallons) of VOC and HAP-containing materials and calculating new monthly VOC and HAP emission totals (based on mass balance using SDS/CPDS emission factors) and comparing the 12-month rolling VOC and HAP emission values with the annual VOC and HAP PSELs. LRAPA has determined that emission calculations are not necessary to ensure compliance with the PM, PM₁₀, and PM_{2.5} PSELs.

15. 2018 Actual Emissions and Emission Details:

- a. The 2018 annual report received on March 19, 2019 (revised Sept. 13. 2019 w/true rolling 12month totals) indicated the facility used a total of 4,170 gallons of VOC and/or HAP containing coatings with a monthly average usage of 348 gal/month in 2018.
- b. The 2018 actual annual total VOC emissions calculated using SDS and CPDS emission factors) was 8.44 tons VOC/2018. Because the facility's 2018 actual annual VOC emissions are close to the 10 ton/year VOC threshold for needing a Simple "high" permit, LRAPA may determine that the facility be invoiced at the Simple "High" in accordance with LRAPA 37-0064(2)(b) if future actual annual VOC emissions exceed the 10-ton VOC/year threshold. Future annual reports will be reviewed in detail to determine the facility's specific emission level.
- c. The 2018 actual annual total of combined HAP emissions (calculated using SDS and CPDS emission factors) was 0.76 tons/2018 and total highest single HAP (xylene) emissions was 0.25 tons xylene/2018.
- d. No information relating to the baghouse and/or PM emissions was provided in the annual report but it is assumed that the facility's emissions of PM are negligible.
- e. VOC and HAP emissions were calculated based on mass balances using SDS and/or CPDS emission factors as reported by coating manufacturers. Should the facility wish to increase production, the facility will have to apply for a permit modification, including a new assessment of fees.

16. PSEL information:

		Netting Basis ^b		Plant Site			
Baseline					PSEL	Significant	
Pollutant	Emission Rate ^a (tons/yr)	Previous (tons/yr)	Proposed (tons/yr)	Previous PSEL ^c (tons/yr)	Proposed PSEL ^d (tons/yr)	Increase over netting basis (tons/yr)	Emission Rate (tons/yr)
PM	0	0	0	24	24	NA	25
PM ₁₀	0	0	0	14	14	NA	15
PM _{2.5}	NA	0	0	9	9	NA	10
CO	0	0	0	NA	NA	NA	100
NOx	0	0	0	NA	NA	NA	40
SO ₂	0	0	0	NA	NA	NA	40
VOC	0	0	0	39	39	39	40
Individual HAP	NA	0	0	NA	9	9	NA
Aggregate HAPs	NA	0	0	NA	24	24	NA

- a. Baseline Emission Rate: The facility did not exist during the baseline period (1978). Baseline emissions are set at zero (0) tons per year for PM, PM₁₀, SO₂, NO_x, CO, and VOC. In accordance with LRAPA 42-0048(3), a baseline emission rate is not applicable to PM_{2.5} emissions. Also, because the facility has chosen to obtain a Simple ACDP, LRAPA 370064(3)(b) and 42-0040(1) specify that the baseline emissions are set at zero (0) tons per year for all pollutants.
- b. The Netting Basis is zero for Simple ACDPs in accordance with LRAPA 42-0040(2).
- c. The Previous PSELs are the PSELs set in the last permit renewal. HAP PSELs were not included in the previous permit but are established with the current renewal.
- d. The Proposed PSELs for all pollutants emitted by the facility are equal to the Generic PSEL in accordance with LRAPA 37-0064(3)(b). The regulated pollutants emitted from processes at this facility are volatile organic compounds (VOCs), particulate matter (PM), particulate matter less than 10 micrometers (μm) in diameter (PM₁₀), particulate matter less than 2.5 micrometers (μm) in diameter (PM_{2.5}) and hazardous air pollutants (HAPs).
- e. The PSEL is a federally enforceable limit on the potential to emit.

Significant Emission Rate Analysis

17. For each pollutant, the proposed Plant Site Emission Limit is less than the Netting Basis plus the Significant Emission Rate (SER), thus no further air quality is required at this time.

Title V Major Source Applicability

- 18. A source that has the potential to emit less than the major source thresholds (100 tons/year or more of any criteria pollutant or 10 tons/year or more of any single HAP or 25 tons/year or more of combined HAPs) is called a true minor. This facility is a true minor and not subject to Title V permitting requirements. The basis for this determination can be found in the PTE emission calculation detail sheets for VOCs, HAPs, and PM at the end of this review report.
- 19. This facility is not a major source of criteria pollutant emissions as defined in LRAPA Title 12.

Hazardous Air Pollutants/Toxic Air Contaminants

20. Under the Cleaner Air Oregon (CAO) program, only existing sources that have been notified by

LRAPA and new sources are required to perform risk assessments. This facility has not been notified by LRAPA and is therefore, not required to perform a risk assessment or report annual emissions of toxic air contaminants.

LRAPA required reporting of approximately 600 toxic air contaminants in 2016 and regulates approximately 260 toxic air contaminants that have Risk Based Concentrations established in rule. All 187 hazardous air pollutants are on the list of approximately 600 toxic air contaminants. The hazardous air pollutants and toxic air contaminants listed below were reported by the source in 2018 and verified by LRAPA. After the source is notified by LRAPA, they must update their inventory and perform a risk assessment to see if they must reduce risk from their toxics air contaminant emissions. Until then, sources will be required to report toxic air contaminant emissions triennially.

21. The facility is a not a major source of hazardous air pollutants. The HAP emissions detail is provided at the end of this report. The facility does not, under current and past operating levels, have the potential to emit above major source thresholds for a single and/or combination of total HAPs. For calendar year 2018, the facility estimated to have emitted approximately 0.76 tons per year total HAPs. The facility is not subject to the requirements of 40 CFR 63 Subpart 6H because the coatings are spray-applied to only wood substrates (i.e., not metal or plastic substrates).

Hazardous Air Pollutant/Toxic Air Contaminants	Potential to Emit (pounds/year)
Xylene	2128.1
Methanol	357.1
Formaldehyde	2.3
Ethyl Benzene	889.4
Methyl Isobutyl Ketone (MIBK) (Hexone)	1105.1
Ethylene Glycol	545.4
Dioctyl Phthalate (Bis(2-ethylhexyl) phthalate (DEHP)	69.8
Toluene	1305.2
Benzene	0.04
Naphthalene	2.9
Ethylene Glycol Monopropyl Ether	7.2
Hexamethylene Diisocyanate	0.2
TOTAL	6412.9

Toxics Release Inventory

- 22. The Toxics Release Inventory (TRI) is a resource for learning about toxic chemical releases and pollution prevention activities reported by certain industrial facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) created the TRI Program. In general, the chemicals covered by the TRI Program are those that cause:
 - Cancer or other chronic human health effects;
 - Significant adverse acute human health effects; or
 - Significant adverse environmental effects.

There are currently over 650 chemicals covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual TRI reports each year. NOTE: The TRI Program is a federal program over which LRAPA has no regulatory authority. The above information has been copied by LRAPA from EPA's TRI website; LRAPA does not guarantee the accuracy of this information.

- 23. Horizon Prestain, Inc. is not covered by the TRI Program because:
 - It is does not employ 10 or more full-time employees and
 - It does not manufacture, process or use TRI-listed chemicals in quantities above

threshold levels in a given year.

Additional Requirements

Emission Limitations

- 24. LRAPA's process weight rule limits emissions of PM for specific processes as a function of the amount of material processed. [LRAPA 32-045(1)] Since the facility is expected to emit minimal amounts of PM, the facility is expected to be in compliance with the process weight rule.
- 25. The facility is subject to visible emission (opacity) standard in LRAPA 32-010(3), the particulate grain loading standard in LRAPA 32-015(2(b)(B) and the Highest and Best requirement of LRAPA 32-005. Operation of well-maintained paint booths with timely filter replacement along with regular maintenance of the sander baghouse should ensure compliance with the grain-loading and visible emission limits. The facility is also required to meet operational and work practice requirements for spray-applied coatings to ensure emissions are minimized to the greatest extent possible.

New Source Performance Standards (NSPSs)

26. There are no devices/processes at this facility for which NSPS standards have been promulgated.

National Emission Standards for Hazardous Air Pollutants (NESHAPs)

27. The facility is not subject to 40 CFR 63 Subpart QQQQ National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products because it is an area source/true minor and does not, under current or past operating levels, have the potential to emit (PTE) above the major source thresholds (potential to emit any single HAP at 10 tons or more per year or any combination of HAPs at a rate of 25 tons or more per year). See PTE HAPs calculation detail sheet at the end of this review report

The facility is not subject to 40 CFR 63 Subpart JJ National Emission Standards for Wood Furniture Manufacturing Operations because it is an area source and is not located at a facility that is a major source.

The facility is not subject to 40 CFR 63 Subpart HHHHHH (6H) National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources because the facility spray-applies surface coatings to only wood substrates (i.e., not metal or wood substrates).

Greenhouse Gas (GHG) Reporting Applicability

28. The facility is not subject to greenhouse gas reporting under OAR 340 Division 215 because actual greenhouse gas emissions are less than 2,500 metric tons (2,756 short tons) of CO2 equivalents per year. If the facility ever emits more than this amount, they will be required to report greenhouse gas emissions.

Typically Achievable Control Technology (TACT) Applicability

29. LRAPA Title 32-008 requires that an existing emission unit at a source to meet TACT if the emissions unit meets the following criteria: the emissions of criteria pollutants are greater than five (5) tons per year of particulate or greater than ten (10) tons per year of any gaseous pollutant, the emissions unit is not subject to the emissions standards under LRAPA Title 30, Title 32, Title 33, Title 38, Title 39, or Title 46 for the pollutants emitted, and the source is required to have a permit. The facility does not currently emit more than 10 tons of VOC a year (The facility reported 8.6 tons of VOC emissions in 2018) and is not required to meet TACT for VOC. While

the facility is not required to meet TACT at this time, LRAPA has determined that, use of airless or HPLV spray guns, cleaning of spray guns with cleaning solvents within a containment system and regular maintenance of spray booth containment systems (Spray Booths #1 and #2) including regular use and replacement of high-efficiency (≥98% removal efficiency) spray booth exhaust filters, would likely meet the TACT requirement.

New Source Review (NSR)

30. Because the proposed PSELs for all regulated pollutants are below the Significant Emission Rates (SERs) in LRAPA Title 38, the facility is not subject to LRAPA's New Source Review (NSR) requirements for PM₁₀ nor the Prevention of Significant Deterioration (PSD) requirements for SO_X, NO_X, CO, and VOC.

Source Testing

31. No performance testing has been completed by this facility. At this time performance testing is not necessary. The use of Safety Data Sheets (SDS) and/or Certified Product Data Sheets (CPDS) and other emission factors appear reasonable for use in estimating emissions from the facility.

Monitoring, Recordkeeping and Reporting Requirements

Monitoring and Recordkeeping

32. The facility is required to monitor and maintain records of the following information:

Activity	Parameter Units		Recording Frequency
VOC/HAP-containing Material Usage ^a	Material Name and Usage	Total Gallons	Monthly
VOC/HAP-containing Material Usage ^a	Density of Material Pounds per Gallon		Maintain current information at all times ^b
VOC-containing Material Usage ^a	VOC Content	% By Weight	Maintain current information at all times ^b
HAP-containing Material Usage ^a	Individual HAP Content	% By Weight	Maintain current information at all times ^b
Spray Booth Maintenance and Filter Replacement	Per Occurrence	NA	Upon occurrence and Filter Replacement
Sander Baghouse Maintenance	Per Occurrence	NA	As Performed

^a VOC/HAP containing materials include, but are not limited to, coatings, lacquers, thinners, stains, topcoats, solvents, gluing, cleaning, and wash-off materials.

^b The material density and VOC/HAP content information must be supplied from a Safety Data Sheet (SDS) or Certified Product Data Sheet (CPDS)provided by the manufacturer/supplier of the coatings or solvents.

Reporting Requirements

- 33. The facility is required to submit an annual summary report to document compliance with the VOC and HAP PSELs by March 15th each year. The summary report must contain documentation of VOC and HAP emissions corresponding to each 12-month rolling period calculated according to Permit Condition 12. The annual report must also document any new materials used at the facility, provide updated or new SDSs, CPDSs or emission factors as necessary, a summary of any complaints received by the facility during the year in accordance with Permit Condition 6 and a list of major maintenance performed on the pollution control devices.
- 34. The annual summary report must include the information as required per Condition G15 (excess emissions).

Public Notice:

In accordance with LRAPA 31-0030(3)(b) and LRAPA 37-0064(4)(a), this draft Simple Air 35. Contaminant Discharge Permit (ACDP) was on public notice for 30 days from September 19, 2019 to October 18, 2019. During this period, LRAPA received one comment from the general public. The commenter expressed concerns about possible carcinogenic compounds and/or respiratory irritants emitted by Horizon Prestain, Inc. The commenter also expressed the concern that too many industries are allowed to contaminate the airshed and the need for more restrictive regulations to control pollutants from local industry. In response to the commenter's concerns, the draft ACDP contains provisions to limit off-site emissions. Per draft ACDP permit conditions #9 and 9.a-9.e, Horizon Prestain is required to perform operational and work practice requirements for all spray-applied coatings to minimize VOC and HAP emissions. This includes Condition 9.a. which requires the facility to use spray booths with 98% over-spray capture efficiency for all spray-applied coatings. The required use of spray booths helps protect worker exposure to harmful air pollutants as well. Per draft ACDP Condition #13, the facility is required to monitor and record usage of all VOC and HAP-containing coatings used each month. As documented in Item #s 13, 14 and 15 of this draft Review Report. Horizon's actual VOC (see item 15.b.) and HAP (see item 15.c.) emissions are well below the facility's Plant Site Emission Limits (PSELs) of 39 tons per year of VOC and 25 tons per year of combined HAPs. With this ACDP renewal, Horizon has not requested any increases in permitted emissions.

In addition, as cited on page 1 of the draft ACDP (#203534), the City of Eugene issued a LUCS (Land Use Compatibility Statement) to Horizon on May 31, 2002. The facility's surface-coating operation and ACDP are consistent with the LUCS granted in I-3 zoning districts. (I-3 = Heavy Industrial Use)

No public hearing was requested by ten (10) or more individuals or an individual representing a group of more than ten (10) individuals.

Comments Received During the Public Notice Period:

- 36. There was one comment from the public during the comment period.
- 37. LRAPA issued the permit on October 25, 2019.

Horizon Prestain, Inc. Permit No. 203534 Expiration Date: October 25, 2024

And 2018 Actual H/ CAS number 1330-20-7 1333-86-4 54-17-5 526-73-8 95-63-6 108-67-8 67-56-1 50-00-0 64742-82-1 64742-95-6 8052-41-3 54742-88-7 78-83-1 54742-88-7 78-83-1 54742-48-9 54741-41-9 3032-32-4 /68410-9	AP and VOC Emissions Su Chemical Name XYLENE CARBON BLACK ETHANOL 1,2,3-TRIMETHYLBENZE 1,3,5-TRIMETHYLBENZE METHANOL FORMALDEHYDE	Immary				8 hrs/day*5 d wks/yr = 2080 2018 HAPs (lbs/yr) 505.29	ay/wk*52) hrs/2018 2018 VOC (lbs/yr) 505.29	24 hrs/day*36 hrs/Max Max PTE HAPs (Ibs/yr) 2128.05	55day/yr = 8760 potential Max PTE VOC (lbs/yr) 2128.05
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64742-82-1 64742-95-6 8052-41-3 64742-88-7 78-83-1 54742-48-9 54742-48-9 54741-41-9 3032-32-4 /68410-9	FURIMALDERTIDE					04.75	04.75	337.10	337.10
64742-92-1 64742-95-6 8052-41-3 64742-88-7 78-83-1 54742-48-9 54741-41-9 3032-32-4 /68410-9						0.55	2.04	2.32	2.32
04742-93-0 8052-41-3 54742-88-7 78-83-1 54742-48-9 54742-48-9 54741-41-9 3032-32-4 /68410-9	COLVENT NARTHA LICK		DHEAVI				2.54		12.37
64742-88-7 78-83-1 64742-48-9 54741-41-9 3032-32-4 /68410-9	MINEDAL CDIDITC	TI ANOIVIATIC					722 56		255.55
78-83-1 54742-48-9 54741-41-9 3032-32-4 /68410-9							6207 72		3063.20
54742-48-9 54741-41-9 3032-32-4 /68410-9							100.72		20323.13
64742-48-9 64741-41-9 3032-32-4 /68410-9							1 73		041.17
3032-32-4 /68410-9							62.66		7.25
0002=02=4700410=0							24.06		203.30
104 15 4							34.50		147.24
104-15-4			OVVETUAL	NOI			110.76		14.75
111_94_2		JILLINER/ Z-BUI	GATEIRAI	NUL			110.76		400.47
100 41 4						311.10	9.04	000 40	38.07
64742-40-0			нт			211.19	16 37	009.43	۵۵۶.43 دە مە
5-7-7-2-45-0 6/7/2-/7 0	LIGHT AUDUATIC UVD2						10.37		1122.00
J+142-41-0							200.88		1123.98
J4742-32-3			EATED CD	ENIT			14.18		59.72
J4742-30-1	METHVI CTUVI VETOVI		LATED SPE	_IN I			14.88		62.67
10-29-7		10					2.51		10.57
38-82-8							0.80		3.37
04/41-05-/	IVIINERAL SPIRITS						82.07		345.64
54742-89-8	LIGHT ALIPHATIC HYDRO	JCARBON SOLVENT					6/1.//		2829.19
3008-20-6	SUPERSENE (KEROSENE)					238.91		1006.18
/8-93-3	METHYLETHYLKETONE	(MEK)					48.85		205.73
108-10-1	METHYLISOBUTYLKETC	NE (MIBK)				262.40	262.40	1105.11	1105.11
123-86-4	n-BUTYL ACETATE						997.42		4200.67
108-65-6	1-METHOXY-2-PROPAN	OLACETATE					333.46		1404.38
71-36-3	1-BUTANOL						116.40		490.22
108-65-6	HEAVY NAPHTHENIC PE	TROLEUMOIL					243.74		1026.52
98-56-6	p-CHLOROBENZOTRIFLU	JORIDE					0.44		1.85
107-21-1	ETHYLENE GLYCOL					129.51	129.51	545.44	545.44
34590-94-8	DIPROPYLENE GLYCOL N	IONOMETHYL ETHE	R				51.70		217.72
96-29-7	2-BUTANONE OXIME						47.92		201.82
554-53-6	3-IODO-2-PROPYNYL BU	JTYLCARBAMATE					0.59		2.47
136-52-7	COBALT BIS(2-ETHYLHE)	KANOATE)					113.51		478.05
117-81-7	DIOCTYL PHTHALATE					16.57	16.57	69.79	69.79
110-43-0	METHYL AMYL KETONE						0.00		0.00
110-19-0	ISOBUTYL ACETATE						13.77		57.99
141-78-6	ETHYL ACETATE						18.72		78.84
) 7-85-8	ISOBUTYL ISOBURYRATE	<u>:</u>					13.77		57.99
108-88-3	TOLUENE					309.92	309.92	1305.24	1305.24
71-43-2	BENZENE					0.01	0.01	0.04	0.04
91-20-3	NAPHTHALENE					0.69	0.69	2.91	2.91
27253-31-2	COBALT NEODENOATE						0.10		0.43
2807-30-9	ETHYLENE GLYCOL MON	OPROPYL ETHER				1.72	1.72	7.24	7.24
22464-99-9	2-ETHYLHEXANOIC ACIE), ZIRCONIUM SALT					1.23		5.18
12001-85-3	ZINC NAPHTHENATE						0.00		0.00
322-06-0	Hexamethylene diisocy	/anate				0.05	0.05	0.20	0.20
55406-53-6	3-IODO-2-PROPYNL BU	IYL CARBAMATE		<u> </u>			0.47		1.98
100684-20-6	FATTY ACIDS, TAIL-OIL,	MALEATED, CMPDS	WITH TRU	ETHANOL	AMINE		0.10		0.43
58002-18-6	ISOBUTYLATED UREA-FO	ORMALDEHYE POLY	MER				0.00		0.00
67746-08-1/8001-2	LINSEED OIL						2067.42		8707.02
8002-05-9	PETROLEUM						1.68		7.08
41556-26-7	BIS(1,2,26,6-PENTAMET	HYL-4-PIPERIDYL)SI	BACATE				2.91		12.25
82919-37-7	METHYL(1,2,26,6-PENTA	METHYL-4-PIPERID	YL)SIBACA	\TE			2.91		12.25
689-83-9	FATTY ACIDS, C9-13-NE	O-,COBALT SALTS					2.91		12.25
162267-17-0	AMINO POLYMER						0.01		0.04
628-63-7	AMYLACETATE (MIXED	ISOMERS)					13.62		57.37
	ALKYD RESIN, n.os (dryi	ng oil)					2037.55		8581.22
Blue text indicates	s HAPs				Total Lbs	1522.69	16889.66	6412.86	71131.46
					Total Tons	0.76	8.44	3.21	35.57
					Total			Estimated	
					Gallons	4322		Max Usage	
					VOC/HAP-	gallons/2018		@8760hrs/yr =	
					containing	Annual Report		18,200	
					materials:			gallons/Max	
*The Potential to E	Emit (PTE) for VOC and H	AP emissions for H	orizon Pre	estain was	calculated b	y multiplying the	reported 2018	HAP/VOC emis	sions by the
*The Potential to E ratio of the maxim	Emit (PTE) for VOC and H num annual operating ho	AP emissions for H urs per year (24 hrs	orizon Pre /day*365	estain was days/yr =	s calculated b 8760 hrs/yr n	y multiplying the nax) to the norma	reported 2018 l operating ho	HAP/VOC emis urs per year (8 l	sions by the nrs/day* 5
*The Potential to E ratio of the maxim Jays/week*52 wks	Emit (PTE) for VOC and H num annual operating ho s/yr = 2080 hrs/2018). [Lb	IAP emissions for Ho urs per year (24 hrs IS HAP/VOC * 8760/	orizon Pre /day*365 2080 = Ma	estain was days/yr = ximum P	s calculated b 8760 hrs/yr n TE Ibs HAP/VC	y multiplying the nax) to the norma DC] The total usag	reported 2018 l operating ho e (gallons) of	HAP/VOC emis urs per year (8 HAP/VOC-conta	sions by the nrs/day* 5 nining materials

PTE for VOC = 71,131.5 lbs VOC/yr x 1 ton/2000 lbs = 35.6 tons VOC/yr

PTE for Individual HAP (xylene) = 2128.1 lbs xylene/yr x 1 ton/2000 lbs = 1.06 tons xylene/yr PTE for Combined HAPs = 6412.9 lbs HAPs/yr x 1 ton/2000 lbs = 3.21 tons HAPs/yr

Potential PM Emissi	ions:											
PM from Coating Ma	aterials:											
				Sol	ids							
		Product	Density									
Vendor*	Description	Code	lb/gal	wt%	lb/gal							
Rodda	Lacquer Primer Surfacer	729751	9.84	51.0	5.0							
Rodda	Blk Lacquer Primer Surfacer	782001	9.20	44.0	4.0							
Rodda	Int. Gloss Satin Finish	523601	10.79	50.1	5.4							
Sherwin-Williams	Millwork Primer	E60WJ518	12.78	61.5	7.9	Worst case	2					
Sherwin-Williams	Precat Lacquer	T77F58	7.90	35.0	2.8							
Rudd Wood Finish	Duracat Precat Lacquer	651810	7.56	27.7	2.1							
Rudd Wood Finish	Clear Varnish	310661	7.67	30.8	2.4							
PPG Industries, Inc.	Cetol RE Natural Oak	365680	7.76	71.3	5.5							
PPG Industries, Inc.	Cetol SRD Cedar	412994	7.76	42.3	3.3							
*Horizon reported of	over 60 vendor products used in 2	018: PM PT	E calculate	d based o	n the							
highest coating mat	erial volume/gallons used with h	ighest soli	d content.									
Potential PM Emissi	ions from Coating Operations:											
PM PTE = Worst case	e solid content (PM) (Ib/gal) x Ma	ximum pot	tential ann	ual usage	(gal/yr) x (1-Transfer	Eff.) x (100	% - Filter I	Eff.)/100) x	(1 ton/200	Jlbs	
	Worst case solid content=	7.8	lb/gal (see	e above)								
	Max potential usage=	18,200	18,200 gal max/yr (see estimate based on max VOC/HAP PTE)									
	Transfer Efficiency =	60	60 % (based on minimum transfer eff. for HVLP application)									
Filter Efficiency = 98.2 % (based on API Filter MFG Eff.)												
PM PTE from Coatin	g Operations = 7.9 lb PM/gal x 18	3,200 gal/yı	x (1-0.60)	x (100% - 9	8.2%)/100) x 1 ton/20	000 lbs = 0.	52 tons PN	//yr			
Potential PM Emissi	ons from Sanding Operations:											
PM PTE = Maximum	lbs sanderdust/hr x 8760 hrs max	/yr x 1 BDT	/2000 lbs x	0.04 lbs P	M/PM ₁₀ /P	M _{2.5} /BDT**	= lbs PM N	/lax/yr				
	Worst case sanderdust prod.	100	100 lbs/hr (estimated maximum hourly rate)									
	Sanding Operation w/baghouse 0.04 lbs PM/BDT (DEQ AQ-EF02 Emission Factor for Baghouse							ouse contr	ol)			
		** Assumes PM/PM ₁₀ /PM ₂₅ fractions are the same										
				, 10,	2.5							
DM/DM /DM DTF	= 100 lbs sanderdust /br v 8760 b	rs/vr v 1 BC	Dr sanderd	ust /2000 Ik	s v 0 04 lb	e PM/RDT*	* = 175 lb	c PM/vr				
· ····, · ···· ₁₀ / · ···· _{2.5} F IL		, y: . I DL	- Janueru	2000 H	,5 A 0.04 ID		- 17.510	5 . ivi/ yi				
NOTE: Actual opport	ting hours for haghouse-controlls	d canding	operations	aro loss +	han 10 bro	ner month	(~120 hrc/	vr max)				
Total haghouse one	rating hours for Dagnouse-controlle	abouse inc	tallation in	1006			1 1201115/	yı 111ax).			-	
i otal bagilouse ope		gilouse Ills	lanalionin	11990.								

Facility P1	TE Emissior	s Summar	y:										
					PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	VOC	Individual	Combined
EUID	Emission Device/Unit Description			(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	(TPY)	HAP (TPY)	HAPs (TPY)	
SB1 &SB2	Spray Boo	th #1 & 2 C	ombined		0.52	0.52	0.52	NA	NA	NA	35.6	1.06	3.21
5E-BH	Baghouse	-Controlle	d Sanding	Operations	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA
				PSEL=	24	14	9	NA	NA	NA	39	9	24