



APR 04 2011

Bernardo Moreno  
Hannibal Industries  
Ref: Andersen Rack Systems, Inc.  
3851 S. Santa Fe Ave  
Los Angeles, CA 90058

**Re: Notice of Preliminary Decision - Emission Reduction Credits**  
**Project Number: N-1062909**

Dear Mr. Moreno:

Enclosed for your review and comment is the District's analysis of Hannibal Industries Ref: Andersen Rack Systems, Inc.'s application for Emission Reduction Credits (ERCs) resulting from the shutdown of the steel storage systems manufacturing operation, at 1821 E Charter Way, Stockton, CA. The quantity of ERCs proposed for banking is 29,340 pounds per year of Volatile Organic Compounds (VOC) and 1,215 pounds per year of Particulate Matter, 10 microns or less (PM10).

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Rick Dyer of Permit Services at (209) 557-6458.

Sincerely,

David Warner  
Director of Permit Services

DW:rd/st

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585

APR 04 2011

Mike Tollstrup, Chief  
Project Assessment Branch  
Stationary Source Division  
California Air Resources Board  
PO Box 2815  
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Emission Reduction Credits**  
**Project Number: N-1062909**

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APR 04 2011

Gerardo C. Rios (AIR 3)  
Chief, Permits Office  
Air Division  
U.S. E.P.A. - Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Emission Reduction Credits**  
**Project Number: N-1062909**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Hannibal Industries Ref: Andersen Rack Systems, Inc.'s application for Emission Reduction Credits (ERCs) resulting from the shutdown of the steel storage systems manufacturing operation, at 1821 E Charter Way, Stockton, CA. The quantity of ERCs proposed for banking is 29,340 pounds per year of Volatile Organic Compounds (VOC) and 1,215 pounds per year of Particulate Matter, 10 microns or less (PM10).

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**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED ISSUANCE OF  
EMISSION REDUCTION CREDITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Hannibal Industries, Ref: Andersen Rack Systems, Inc. for the shutdown of the steel storage systems manufacturing operation, at 1821 E Charter Way, Stockton, CA. The quantity of ERCs proposed for banking is 29,340 pounds per year of Volatile Organic Compounds (VOC) and 1,215 pounds per year of Particulate Matter, 10 microns or less (PM10).

The analysis of the regulatory basis for this proposed action, Project #N-1062909, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. Written comments on this project must be submitted within 30 days of the publication date of this notice to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356-8718.**

## ERC Application Evaluation

**Company Name:** Andersen Rack Systems, Inc

**Date:** March 31, 2011

**Mailing Address:** Hannibal Industries, Inc.  
RE: Andersen Rack Systems, Inc.  
3851 S. Santa Fe Ave.  
Los Angeles, CA 90058

**Contact Name:** Bernardo Moreno  
**Phone:** (323) 552-3146

**Engineer:** Rick Dyer  
**Project #:** N1062909  
**Application #'s:** N-2368-1

**Date Application Received:** October 16, 2006  
**Date Application Deemed Complete:** March 19, 2008

### I. Summary:

The Hannibal Industries, Inc. (owner of Andersen Rack Systems, Inc.) is proposing to receive the following quantities of Emission Reduction Credits (ERCs) for the shut down of the steel storage systems manufacturing facility. This application was submitted for the PM<sub>10</sub> and VOC emissions resulting from the coating operations only. Although there was natural gas combustion and solvent usage at the facility, available records were insufficient for ERC calculations for those operations.

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
VOC	7,335	7,335	7,335	7,335
PM <sub>10</sub>	300	303	306	306

### II. Applicable Rules:

**District Rule 2201: New and Modified Stationary Source Review (12/18/08)**  
**District Rule 2301: Emission Reduction Credit Banking (12/17/92)**  
**District Rule 4603: Surface Coating of Metal Parts and Products (9/17/09)**

### III. Location of Reductions:

The facility was located at 1821 E Charter Way, Stockton, CA.

#### IV. Method of Generating Reductions:

The ERCs were generated by the shutdown of the stationary source on July 28, 2006. The stationary source consisted of a conveyORIZED metal parts and products coating operation with two spray booths and natural gas-fired curing ovens.

#### V. ERC Calculations:

##### A. **Assumptions:**

- The results of all Historical Actual Emission (HAE) and Actual Emission Reduction (AER) calculations are rounded to the nearest whole number.
- The first quarter of the calendar year has 90 days, the second quarter of the calendar year had 91 days, the third quarter of the year had 92 days and the fourth quarter of the calendar year has 92 days.

##### B. **Emissions Factors:**

###### VOC and PM<sub>10</sub>:

The facility manufactured metal storage racks and then coated the racks with liquid coatings to protect the exposed metal surfaces. The liquid coatings were applied inside a spray booth with exhaust filters using HVLP spray equipment (75% transfer efficiency and 66% removal efficiency per project N1000156).

Historical Actual Emissions (HAE) from the coating operations during the baseline period will be calculated utilizing the as-applied coating VOC contents, the coating solids contents, and the quantities of coatings used. Coating information provided by Material Safety Data Sheets and Technical Sheets are summarized in the table below.

Material	Product Code	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)
Andersen Off White	QE-113	9.75	37.98	0.99	2.53
Lozier Almond	QE-117	9.57	36.34	1.00	2.62
Andersen White	QE-119	9.74	37.94	0.99	2.53
Andersen White	QE-126	9.72	37.96	0.98	2.49
Andersen White	QE-132	9.95	39.59	0.50	1.66
A Andersen White	QE-135	9.87	38.79	0.50	1.78
Andersen White	QE-138	9.87	38.79	0.50	1.78
Designer White	QE-147	9.67	36.02	0.90	2.47
Vista Green	QE-415	9.03	31.37	1.00	2.71
Johns Import Green	QE-424	8.95	30.68	1.00	2.68

Material	Product Code	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)
Interlake Green	QE-432	9.20	31.88	0.98	2.71
McCoy Green	QE-441	8.56	25.11	0.96	2.71
Andersen Green	QE-442	8.92	29.85	0.50	1.88
Andersen Green	QE-443	8.92	29.85	0.50	1.88
AGN Std Green	QE-464	8.95	30.55	1.00	2.71
AGN Standard Green	QE-466	8.95	30.55	1.00	2.71
Andersen Off Green	QE-468	9.64	36.05	0.89	2.43
Vitmar Green	QE-474	9.28	32.95	0.89	2.49
Lodi Metal Tech Green	QE-478	8.93	29.78	0.90	2.54
Caterpillar Yellow	QE-510	9.05	32.60	1.33	2.83
Yardbird Yellow	QE-515	9.15	32.32	0.96	2.58
Andersen Orange	QE-522	9.17	33.31	0.99	2.57
Interlake Orange	QE-535	8.96	31.45	1.00	2.63
And. Orange & Yellows	QE-542	9.18	32.55	0.53	1.78
And. Orange & Yellows	QE-544	9.18	32.55	0.53	1.78
And. Orange & Yellows	QE-545	9.18	32.55	0.53	1.78
And. Orange & Yellows	QE-552	9.18	32.55	0.53	1.78
AOR Standard Orange	QE-566	9.27	39.19	1.00	2.71
Andersen Yellow	QE-569	9.34	37.20	1.00	2.61
Lodi Metal Tech Orange	QE-570	8.71	28.98	1.00	2.71
Pantone Yellow	QE-572	9.37	37.85	1.00	2.55
Inca Yellow	QE-574	9.26	36.76	1.00	2.60
Monarch Orange	QE-576	8.81	29.20	1.00	2.70
Dorfman Orange	QE-579	9.22	36.99	1.00	2.71
Safety Yellow	QE-580	9.27	36.82	0.99	2.38
And. Summit Yellow	QE-581	9.25	35.83	1.00	2.68
Frazier Yellow	QE-582	9.04	31.25	0.98	2.63
Ferguson Orange	QE-585	8.65	32.61	1.00	2.71
Cool Gray	QE-617	10.08	43.80	1.35	2.81
Yardbird Gray	QE-620	9.19	32.58	1.00	2.71
Andersen Pebble Gray	QE-626	9.33	31.80	0.51	2.57
Andersen Gray	QE-647	9.27	33.41	1.00	2.66
Kwal Gray	QE-649	8.73	28.21	1.00	2.71
Andersen Gray	QE-653	9.48	34.48	1.00	2.71
Allied HSF Gray	QE-654	9.48	34.48	1.00	2.71
Sketcher's Gray	QE-655	9.17	32.46	1.00	2.71
Toyota Gray	QE-664	9.91	39.32	1.00	2.55
Fire Red	QE-713	8.61	28.20	1.00	2.66
Andersen Reds	QE-733	8.67	29.45	0.98	2.57

Material	Product Code	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)
Kwal Red	QE-734	8.63	27.99	0.94	2.59
Andersen Reds	QE-735	8.67	29.45	0.98	2.57
Bear Foot Pink	QE-736	9.67	36.07	0.90	2.47
Crimson Red	QE-737	8.59	27.47	0.94	2.58
BNR Red	QE-739	8.58	28.66	0.98	2.54
Bagel Tan	QE-848	9.60	36.68	1.00	2.64
Home Depot Beige	QE-850	9.55	36.35	1.00	2.58
Inca Putty	QE-851	9.32	33.34	0.92	2.52
Andersen Tans	QE-852	9.65	18.78	0.98	2.58
Andersen Tans	QE-854	9.65	18.78	0.98	2.58
Food Max Beige	QE-855	9.61	34.62	0.93	2.62
CSB Brown	QE-858	9.10	32.04	1.00	2.71
Andersen Tans	QE-862	9.07	30.09	0.51	1.73
Andersen Tans	QE-863	9.07	30.09	0.51	1.73
Andersen Blues	QE-915	8.87	30.13	1.00	2.71
Royal Blue	QE-929	8.87	30.13	1.00	2.71
Sturdi-Built Blue	QE-930	8.77	27.53	0.95	2.71
NC Blue	QE-951	8.77	30.93	1.17	2.83
Sturdi-Built Blue	QE-954	8.78	27.68	0.51	1.73
Unarco Blue	QE-963	8.78	28.68	0.99	2.71
Reno Blue	QE-964	8.73	28.29	1.00	2.71
Blue Aquatech	QE-981	8.70	27.48	0.50	1.88
Kwal Blue	QE-987	8.72	28.22	0.99	2.70
Frazier Blue	QE-988	8.72	28.16	1.00	2.71
Inca Blue	QE-989	8.68	26.72	0.97	2.71
SBL Blue	QE-991	9.07	31.19	1.00	2.69
Hannibal Blue	QE-992	8.65	29.96	1.00	2.71
Blue Aquatech Enamel	QE-995	8.47	25.74	1.00	2.71
Toyota Blue	QE-9003	8.84	27.74	0.81	2.63
Gloss Black	QE-J204	8.48	24.13	0.97	2.71
V-AGN	VS-001	8.96	35.24	2.36	2.36
V-OR	VS-002	8.96	35.24	2.36	2.36

**C. Baseline Period Determination and Data:**

**Baseline Period Determination:**

Section 3.5 of District Rule 2301 defines the baseline period as “two consecutive years immediately prior to the submission of a complete application” or “another time period of at least two years within five years immediately prior to the



submission of the complete application determined by the APCO as more representative of normal source operation”.

The applicant stated that the facility was in normal operation up to the shutdown of the facility. The eight consecutive calendar quarter periods preceding the shutdown will be used for the baseline period. The baseline period is Q3 2004 through Q2 2006.

**Baseline Period Data:**

Please refer to Appendix I for the coating usages during the period of time from Q3 2004 through Q2 2006.

**D. Historical Actual Emissions (HAE):**

HAE from the coating operations are determined as follows (See Appendix II for tabulated calculation results):

$$HAE_{VOC} = \text{coating usage (gal)} \times \text{as-applied VOC content (lb/gal)}$$

$$HAE_{PM10} = \text{coating usage (gal)} \times \text{coating solids content (\% by wt.)} \\ \times \text{coating density (lb/gal)} \times (1 - \text{transfer efficiency}) \\ \times (1 - \text{removal efficiency})$$

VOC				
	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
2004	---	---	8,935	8,521
2005	6,802	15,427	14,889	18,883
2006	11,990	11,548	---	---
Average	<del>9,396</del>	<del>13,488</del>	<del>11,912</del>	<del>13,702</del>
Surplus HAE <sup>1</sup>	8,150	8,150	8,150	8,150

PM <sub>10</sub>				
	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
2004	---	---	2,563	2,498
2005	1,451	2,905	3,285	3,745
2006	3,306	3,107	---	---
Average	<del>2,379</del>	<del>3,006</del>	<del>2,924</del>	<del>3,436</del>
Surplus HAE <sup>1</sup>	333	337	340	340

<sup>1</sup> See the discussion for Surplus Reductions under section VI.E in this document.

**E. Actual Emission Reductions (AER):**

In the case of shutdowns AER = HAE, unless the HAE must be reduced such that they are surplus. As shown in section VI.E of this document, the HAE for both VOC and PM<sub>10</sub> were reduced to meet the surplus emissions requirements.

**F. Air Quality Improvement Deduction:**

Per section 6.5 of District Rule 2201, a 10% air quality improvement deduction must be applied to the AER prior to banking. The air quality improvement deductions are as follows:

<b>Air Quality Improvement Deduction for VOC</b>		
Quarter	AERs (lb/qtr)	10% Deduction (lb/qtr)
1	8,150	815
2	8,150	815
3	8,150	815
4	8,150	815

<b>Air Quality Improvement Deduction for PM<sub>10</sub></b>		
Quarter	AERs (lb/qtr)	10% Deduction (lb/qtr)
1	333	33
2	337	34
3	340	34
4	340	34

**G. Bankable Emissions Reductions:**

The bankable reductions are the AER minus the Air Quality Improvement Deduction.

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
VOC	7,335	7,335	7,335	7,335
PM <sub>10</sub>	300	303	306	306

**VI. Compliance:**

**A. Real Reductions:**

The emission reductions were generated by the permanent shutdown of all emission units at the stationary source. Therefore, the emission reductions are real.

**B. Enforceable Reductions:**

All of the facility's Permits to Operate have been surrendered to the District. Operation of the equipment without permits would result in enforcement action being taken. Therefore, the reductions are enforceable.

**C. Quantifiable Reductions:**

The baseline emissions were calculated utilizing District-approved emission factors and actual baseline period coating usages. Therefore, the reductions are quantifiable.

**D. Permanent Reductions:**

All of the facility's Permits to Operate have been surrendered to the District. Operation of the equipment without permits would result in enforcement action being taken. Therefore, the reductions are permanent.

**E. Surplus Reductions:**

This section will contain an explanation of the actions taken to ensure that all emission reductions during the baseline period were surplus.

**Coating Operations:**

The coating operation was subject to District Rule 4603: Surface Coating of Metal Parts and Products.

In order to determine if the proposed VOC emission reductions from the coating operations are surplus, the following Rules were reviewed:

SJVAPCD Rule 4603:

Surface Coating of Metal Parts and Products (September 17, 2009)

San Diego APCD Rule 67.3:

Metal Parts and Products Coating Operations (April 9, 2003)

Sac Metro APCD Rule 451:

Surface Coating of Miscellaneous Metal Parts and Products  
(October 28, 2010)

SCAQMD Rule 1107:

Coating of Metal Parts and Products (January 6, 2006)

BAAQMD Rule 19:

Surface Preparation and Coating of Miscellaneous Metal Parts and  
Products (October 16, 2002)

San Luis Obispo County APCD Rule 411:

Surface Coating of Metal Part and Products (January 28, 1998)

Monterey Bay Unified APCD Rule 434:

Coating of Metal and Products (January 17, 2001)

Yolo Solano AQMD Rule R2-25:

Metal Parts and Products Coating Operations (May 14, 2008)

A review of the rules listed above found that, except for the Monterey Bay Unified APCD, all the districts have a VOC limit for heat-cured operations of 2.3 lb/gal (275 g/l), less water and exempt compounds. The limit for the Monterey Bay unified APCD is 3.0 lb/gal for heat-cured coatings. Therefore, the VOC limit applicable for this project is 2.3 lb/gal.

As shown in Section V. B. of this document, the VOC content for most of the liquid coatings used exceeded the limit of 2.3 lb/gal, less water and exempt compounds. Consequently, the VOC limit, as applied (in lb/gal), used in the VOC emissions calculations will also be adjusted. The adjustment will be based on adjusting the actual VOC limit of the coatings used, less water and exempt compounds, to the rule limit of 2.3 lb-VOC/gal, less water and exempt compounds. The resulting percentage adjustment will then be applied to the VOC calculations. For example, if the coating used exceeds the rule limit by 18%, the VOC coating limit, as applied, will also be reduced by 18% for the VOC emission calculations. See Appendix II for emissions calculations.

#### **Permitted Emissions Limitations:**

##### VOC Emissions:

The permit for this operation contained VOC limits of 174 lb/day and 32,600 lb/yr.<sup>2</sup> The maximum permitted quarterly emissions breakdowns are as follows:

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<sup>2</sup> Although the daily and annual VOC permit conditions limited coating and solvents, no data was available for solvent usage. For this project, the VOC calculations will be based only upon coating usage.

PE<sub>VOC</sub> Calculations based upon the daily VOC limit:

$$\begin{aligned} PE_{VOC} &= 174 \frac{\text{lb}}{\text{day}} \times 90 \frac{\text{days}}{\text{qtr 1}} = 15,660 \frac{\text{lb}}{\text{qtr 1}} \\ &= 174 \frac{\text{lb}}{\text{day}} \times 91 \frac{\text{days}}{\text{qtr 2}} = 15,834 \frac{\text{lb}}{\text{qtr 2}} \\ &= 174 \frac{\text{lb}}{\text{day}} \times 92 \frac{\text{days}}{\text{qtr 3}} = 16,008 \frac{\text{lb}}{\text{qtr 3}} \\ &= 174 \frac{\text{lb}}{\text{day}} \times 92 \frac{\text{days}}{\text{qtr 4}} = 16,008 \frac{\text{lb}}{\text{qtr 4}} \end{aligned}$$

PE<sub>VOC</sub> Calculations based on the annual VOC limit:

Since this is non-seasonal operation, the annual VOC emissions limit will be divided by four to get the permitted quarterly emissions.

$$\begin{aligned} PE_{VOC} &= 32,600 \text{ lb-VOC/yr} \div 4 \text{ qtr/yr} \\ &= \mathbf{8,150 \text{ lb-VOC/qtr}} \end{aligned}$$

Since the averaged HAE for VOC listed in section V.C of this document exceed the maximum permitted quarterly emissions limitation, the HAE for VOC during the baseline period are not surplus. Therefore, the HAE for VOC will be set to the equivalent permitted quarterly emissions limits, 8,150 lb-VOC/qtr.

PM<sub>10</sub> Emissions:

The permit for this operation contained a limit for PM<sub>10</sub> of 3.7 lb/day. The maximum permitted quarterly emissions breakdowns are as follows:

$$\begin{aligned} PE_{PM10} &= 3.7 \frac{\text{lb}}{\text{day}} \times 90 \frac{\text{days}}{\text{qtr 1}} = 333 \frac{\text{lb}}{\text{qtr 1}} \\ &= 3.7 \frac{\text{lb}}{\text{day}} \times 91 \frac{\text{days}}{\text{qtr 2}} = 337 \frac{\text{lb}}{\text{qtr 2}} \\ &= 3.7 \frac{\text{lb}}{\text{day}} \times 92 \frac{\text{days}}{\text{qtr 3}} = 340 \frac{\text{lb}}{\text{qtr 3}} \\ &= 3.7 \frac{\text{lb}}{\text{day}} \times 92 \frac{\text{days}}{\text{qtr 4}} = 340 \frac{\text{lb}}{\text{qtr 4}} \end{aligned}$$

Since the averaged HAE for PM<sub>10</sub> listed in section V.C of this document exceed the maximum permitted quarterly emission limitation, the HAE for PM<sub>10</sub> during the baseline period are not surplus. Therefore, the HAE for PM<sub>10</sub> will be set to the equivalent permitted quarterly emission limits.

**Summary:**

The facility's actual VOC emissions from the coating operation exceeded the permitted annual limitation of 32,600 lb/yr and were discounted to the permitted level. The actual PM<sub>10</sub> emissions from the coating operations exceeded the permitted limitation of 3.7 lb/day and were discounted to the permitted level. Additionally, the emission reductions were made voluntarily and were not required by any present or pending regulation. Therefore, the emission reductions (as adjusted) are surplus.

**F. Timeliness:**

The facility was shut down on July 28, 2006 and the ERC application was submitted on October 16, 2006. The application was submitted before the 180-day deadline imposed by section 4.2.3 of District Rule 2301. Therefore, the ERC application was filed in a timely manner.

**VII. Recommendation:**

Issue Emission Reduction Credit Certificates to Andersen Rack Systems, Inc for NO<sub>x</sub>, VOC, CO, PM<sub>10</sub>, and SO<sub>x</sub> in the following amounts:

	Quarter 1 (lb)	Quarter 2 (lb)	Quarter 3 (lb)	Quarter 4 (lb)
VOC	7,335	7,335	7,335	7,335
PM <sub>10</sub>	300	303	306	306

**Appendix I: Coating Usage**

**Appendix II: Historical Actual Emissions Calculations**

**Appendix III: Permit to Operate for N-2368-1-3**

**Appendix IV: Draft ERC Certificates**

# **Appendix I Coating Usages**









**Coating Usage - Quarter 4; April 2005 - June 2005**

**Project N1062909**

																	Total
<b>Apr-05</b>	QE-416	3	4	2													9
	QE-432	40	7	24													71
	QE-441	3															3
	QE-466	55	67	67	24	106	26	76									421
	QE-510	8	3														11
	QE-535	24	21	7	27												79
	QE-566	12	4														16
	QE-569	5															5
	QE-570	5															5
	QE-572	120	210	106	40	88											564
	QE-579	43	48														91
	QE-647	14	19	6													39
	QE-649	5															5
	QE-654	55	33														88
	QE-929	24	38	31	1												94
	QE-930	70	102	187	110	55	55	8	2								589
	QE-J204	12	3														15
	VS-001	33	12	27	72	93	41	7	34	55	41	60	30	148			651
	VS-002	72	63	21	28	48	9	27	100	10	65	55	78	5	34	131	746
																	<b>Total</b>
<b>May-05</b>	QE-117	14															14
	QE-415	52	51	14	45												162
	QE-424	30															30
	QE-432	4	14	10	10												38
	QE-441	15	18	12	4												49
	QE-466	98	72	59	35	31	74	30									399
	QE-522	81	31	65	21	100	53	93	80	93	43						660
	QE-535	14	5	5	10												34
	QE-566	12	55	45	44	55	17	15	36								279
	QE-569	12	5	3													20
	QE-570	12															12
	QE-572	5	17	5	4												31
	QE-579	22	33														55
	QE-582	20															20
	QE-647	17	3	10	8	8	20	17									83
	QE-655	29	57														86
	QE-713	9	19														28
	QE-929	5	37	55	48	45											190
	QE-930	3	10	5													18
	QE-983	55	55	45													155
	QE-981	40															40
	QE-992	83	75														138
	QE-J204	10	8														18
	VS-001	26	170	45	55	50	16	35	39	50	40	38	34	37	30	30	695
	VS-002	100	60	72	47	225	30	75	27	60	83	24					803
																	<b>Total</b>
<b>Jun-05</b>	QE-113	36	46	130	55	42											309
	QE-117	15	15														30
	QE-415	5	12														17
	QE-424	10															10
	QE-432	30	3	14	12	2	19	4	56	14							154
	QE-466	38	17	21	33	55	12	98	27	9	4	27	30	55	18	9	610
	QE-510	5	4														9
	QE-522	75	36	62	85	52	20										330
	QE-535	36	31	15	25	10	12	12	43								184
	QE-566	3	9	5	2	28	20										67
	QE-569	20	7	5	7	4											43
	QE-572	5	19	24	108	26											182
	QE-617	65	113	15													193
	QE-647	10	1	9	7	2	7	12									48
	QE-713	9															9
	QE-929	25	24	5	31	46	57	45	60	14	20	14	5	4	5		356
	QE-930	38	5	8	19	27	29	35	19	19	1	7	7	3			217
	QE-983	47															47
	QE-987	5															5
	QE-992	3															3
	QE-J204	36	33	19	74	5	9	6									182
	VS-001	40	40	91	20	10											201
	VS-002	80	63	8	55	36	55	60	60	82	64	71	37	29	38	74	951









**Appendix II**  
**Historical Actual Emission Calculations**



**Emissions Calculations**  
Project N1062909

The MACLAC coating data information used in the following calculations was provided by the applicant/supplier

The Valspar coating data was applied to both coatings, VS-001 and VS-002  
(The data sheet was only available for VS-002, but the densities, % weight of pigments, specific gravity were very similar)

From the Material Safety Data Sheets and Technical Information Sheets provided by the applicant/supplier it was noted that most of the coatings exceeded the VOC emissions limit (less water and exempt compounds) specified by District Rule 4603. Consequently, the VOC emissions calculated for each coating was reduced on a percentage basis to adjust for District 4603 compliance.

Shown below are sample calculations for VOC reductions and PM10 calculations.

**Sample Calculations**

Reduction for Rule 4603 Compliance (%):

$(\text{VOC, less water \& exempts,} - \text{VOC, rule limit}) / \text{VOC, rule limit} \times 100$

example QE-415 (July 04):  $(2.71-2.30)/2.30 \times 100 = 17.83\%$

Surplus VOC:

$(\text{VOC, as applied}) \times (1 - \text{VOC reduction, \%})$

example QE-415 (July 04):  $(1.00 \text{ lb/gal}) \times (1 - 17.83\%) = 0.82 \text{ lb/gal}$

VOC Emissions:

$\text{Usage} \times \text{Surplus VOC}$

example QE-415 (July 04):  $40 \text{ gal} \times 0.82 \text{ lb/gal} = 32.87 \text{ lb}$

PM10 Calculation:

$\text{Usage} \times \text{Density} \times \text{Solids Content}/100 \times (1 - \text{TE}) \times (1 - \text{RE})$

example QE-415 (July 04):  $40 \text{ gal} \times 9.03 \text{ lb/gal} \times (31.37/100) \times (1 - 0.75) \times (1 - 0.66) = 9.63 \text{ lb}$

	Product	Liquid		Solids	VOC	VOC	Rule	Reduction	Surplus	VOC	PM10
Material	Code	Usage	Density	Content	as applied	less water	Limit	for rule	VOC	Emissions	Emissions
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	as applied	(lb)	(lb)
						& exempts		compliance	(lb/gal)		
<b>July-04</b>											
Andersen White	QE-132	14	9.95	39.59	0.50	1.66	2.30	0.00	0.50	7.00	4.69
Vista Green **	QE-415	40	9.03	31.37	1.00	2.71	2.30	17.83	0.82	32.87	9.63
Interlake Green	QE-432	60	9.20	31.88	0.98	2.70	2.30	17.39	0.81	48.57	14.96
McCoy Green	QE-441	31	8.56	25.11	0.98	2.71	2.30	17.83	0.79	24.45	5.68
AGN Standard Green	QE-466	845	8.95	30.55	1.00	2.71	2.30	17.83	0.82	694.37	196.39
Yardbird Yellow	QE-515	15	9.15	32.32	0.96	2.58	2.30	12.17	0.84	12.65	3.77
Andersen Orange	QE-522	845	9.17	33.31	0.99	2.57	2.30	11.74	0.87	736.35	219.39
Interlake Orange	QE-535	204	8.96	31.45	1.00	2.63	2.30	14.35	0.86	174.73	48.86
AOR Standard Orange	QE-566	137	9.27	39.19	1.00	2.71	2.30	17.83	0.82	112.58	42.31
Andersen Yellow	QE-589	28	9.34	37.20	1.00	2.61	2.30	13.48	0.87	24.23	8.27
Andersen Gray	QE-647	88	9.27	33.41	1.00	2.71	2.30	17.83	0.82	72.31	23.17
Kwal Gray	QE-649	2	8.73	28.21	1.00	2.71	2.30	17.83	0.82	1.64	0.42
Fire Red	QE-713	30	8.61	28.20	1.00	2.66	2.30	15.65	0.84	25.30	6.19
Home Depot Beige	QE-850	587	9.55	36.35	1.00	2.58	2.30	12.17	0.88	515.54	173.21
Sturdi-Built Blue	QE-930	146	8.77	27.53	0.95	2.71	2.30	17.83	0.78	113.98	29.96
NC Blue	QE-951	8	8.77	30.93	1.17	2.83	2.30	23.04	0.90	7.20	1.84
Gloss Black	QE-J204	15	8.48	24.13	0.97	2.71	2.30	17.83	0.80	11.96	2.61
									<b>TOTALS:</b>	<b>2,618</b>	<b>791</b>
<b>August-04</b>											
Vista Green	QE-415	5	9.03	31.37	1.00	2.71	2.30	17.83	0.82	4.11	1.20
Johns Import Green	QE-424	30	8.95	30.68	1.00	2.68	2.30	16.52	0.83	25.04	7.00
McCoy Green	QE-441	21	8.56	25.11	0.96	2.71	2.30	17.83	0.79	16.57	3.84
AGN Standard Green	QE-466	915	8.95	30.55	1.00	2.71	2.30	17.83	0.82	751.89	212.65
Andersen Orange	QE-522	837	9.17	33.31	0.99	2.57	2.30	11.74	0.87	731.36	217.31
AOR Standard Orange	QE-586	421	9.27	39.19	1.00	2.71	2.30	17.83	0.82	345.95	130.00
Andersen Yellow	QE-589	2	9.34	37.20	1.00	2.61	2.30	13.48	0.87	1.73	0.59
Pantone Yellow	QE-572	12	9.37	37.85	1.00	2.55	2.30	10.87	0.89	10.70	3.62
Andersen Gray	QE-647	25	9.27	33.41	1.00	2.71	2.30	17.83	0.82	20.54	6.58
Kwal Gray	QE-649	3	8.73	28.21	1.00	2.71	2.30	17.83	0.82	2.47	0.63
Andersen Gray	QE-653	68	9.48	34.48	1.00	2.71	2.30	17.83	0.82	55.88	18.89
Andersen Reds	QE-735	82	8.67	29.45	0.98	2.57	2.30	11.74	0.86	70.93	17.80
Home Depot Beige	QE-850	5	9.55	36.35	1.00	2.58	2.30	12.17	0.88	4.39	1.48
Inca Putty	QE-851	65	9.32	33.34	0.92	2.52	2.30	9.57	0.83	54.08	17.17
Andersen Tans	QE-852	4	9.65	18.78	0.98	2.58	2.30	12.17	0.86	3.44	0.82
Royal Blue	QE-929	814	8.87	30.13	1.00	2.71	2.30	17.83	0.82	668.90	184.91
Sturdi-Built Blue	QE-930	121	8.77	27.53	0.95	2.71	2.30	17.83	0.78	94.46	24.83
Reno Blue	QE-964	1	8.73	28.29	1.00	2.71	2.30	17.83	0.82	0.82	0.21
Inca Blue	QE-989	98	8.68	26.72	0.97	2.71	2.30	17.83	0.80	78.11	19.32
Gloss Black	QE-J204	1	8.48	24.13	0.97	2.71	2.30	17.83	0.80	0.80	0.17
V-AGN	VS-001	65	8.96	35.24	2.36	2.36	2.30	2.61	2.30	149.40	17.45
V-OR	VS-002	20	8.96	35.24	2.36	2.36	2.30	2.61	2.30	45.97	5.37
									<b>TOTALS:</b>	<b>3,138</b>	<b>892</b>

Material	Product Code	Liquid Usage (gal)	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)	Rule Limit (lb/gal)	Reduction for rule compliance (%)	Surplus VOC as applied (lb/gal)	VOC Emissions (lb)	PM10 Emissions (lb)
<b>September-04</b>											
Designer White	QE-147	5	9.87	36.02	0.90	2.47	2.30	7.39	0.83	4.17	1.48
Vista Green	QE-415	7	9.03	31.37	1.00	2.71	2.30	17.83	0.82	5.75	1.69
Interlake Green	QE-432	33	9.20	31.88	0.98	2.70	2.30	17.39	0.81	26.72	8.23
McCoy Green	QE-441	13	8.56	25.11	0.96	2.71	2.30	17.83	0.79	10.26	2.38
AGN Standard Green	QE-466	1265	8.95	30.55	1.00	2.71	2.30	17.83	0.82	1039.50	294.00
Andersen Orange	QE-522	1020	9.17	33.31	0.99	2.57	2.30	11.74	0.87	891.26	264.83
Interlake Orange	QE-535	49	8.98	31.45	1.00	2.63	2.30	14.35	0.86	41.97	11.74
AOR Standard Orange	QE-566	482	9.27	39.19	1.00	2.71	2.30	17.83	0.82	396.08	148.84
Andersen Yellow	QE-569	34	9.34	37.20	1.00	2.61	2.30	13.48	0.87	29.42	10.04
Pantone Yellow	QE-572	30	9.37	37.85	1.00	2.55	2.30	10.87	0.89	26.74	9.04
Dorfman Orange	QE-579	62	9.22	36.99	1.00	2.71	2.30	17.83	0.82	50.95	17.97
Andersen Gray	QE-647	97	9.27	33.41	1.00	2.71	2.30	17.83	0.82	79.71	25.54
Fire Red	QE-713	1	8.61	28.20	1.00	2.66	2.30	15.65	0.84	0.84	0.21
Royal Blue	QE-929	41	8.87	30.13	1.00	2.71	2.30	17.83	0.82	33.69	9.31
Sturdi-Built Blue	QE-930	33	8.77	27.53	0.95	2.71	2.30	17.83	0.78	25.76	6.77
Gloss Black	QE-J204	95	8.48	24.13	0.97	2.71	2.30	17.83	0.80	75.72	16.52
V-AGN	VS-001	157	8.96	35.24	2.36	2.36	2.30	2.61	2.30	360.85	42.14
V-OR	VS-002	35	8.96	35.24	2.36	2.36	2.30	2.61	2.30	80.45	9.39
									<b>TOTALS:</b>	<b>3,180</b>	<b>880</b>
									<b>QTR-1</b>	<b>8,935</b>	<b>2,563</b>
<b>October-04</b>											
Vista Green	QE-415	44	9.03	31.37	1.00	2.71	2.30	17.83	0.82	36.16	10.59
Johns Import Green	QE-424	15	8.95	30.88	1.00	2.68	2.30	16.52	0.83	12.52	3.50
Interlake Green	QE-432	91	9.20	31.88	0.98	2.70	2.30	17.39	0.81	73.67	22.69
AGN Standard Green	QE-466	321	8.95	30.55	1.00	2.71	2.30	17.83	0.82	263.78	74.60
Andersen Orange	QE-522	269	9.17	33.31	0.99	2.57	2.30	11.74	0.87	235.05	69.84
Interlake Orange	QE-535	178	8.98	31.45	1.00	2.63	2.30	14.35	0.86	152.46	42.64
AOR Standard Orange	QE-566	11	9.27	39.19	1.00	2.71	2.30	17.83	0.82	9.04	3.40
Andersen Yellow	QE-569	61	9.34	37.20	1.00	2.61	2.30	13.48	0.87	52.78	18.02
Dorfman Orange	QE-579	2	9.22	36.99	1.00	2.71	2.30	17.83	0.82	1.64	0.58
Andersen Gray	QE-647	109	9.27	33.41	1.00	2.66	2.30	15.65	0.84	91.94	28.69
Fire Red	QE-713	13	8.61	28.20	1.00	2.66	2.30	15.65	0.84	10.97	2.68
Bear Foot Pink	QE-736	30	9.67	36.07	0.90	2.47	2.30	7.39	0.83	25.00	8.89
Home Depot Beige	QE-850	313	9.55	36.35	1.00	2.58	2.30	12.17	0.88	274.90	92.36
Andersen Tans	QE-854	20	9.65	18.78	0.98	2.58	2.30	12.17	0.86	17.21	3.08
Royal Blue	QE-929	348	8.87	30.13	1.00	2.71	2.30	17.83	0.82	285.97	79.05
Sturdi-Built Blue	QE-930	108	8.77	27.53	0.95	2.71	2.30	17.83	0.78	84.31	22.16
Gloss Black	QE-J204	54	8.48	24.13	0.97	2.71	2.30	17.83	0.80	43.04	9.39
V-OR	VS-002	50	8.96	35.24	2.36	2.36	2.30	2.61	2.30	114.92	13.42
									<b>TOTALS:</b>	<b>1,785</b>	<b>506</b>

Material	Product Code	Liquid Usage	Density	Solids Content	VOC as applied	VOC less water & exempts	Rule Limit	Reduction for rule compliance	Surplus VOC as applied	VOC Emissions	PM10 Emissions
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	(lb/gal)	(lb)	(lb)
<b>November-04</b>											
Vista Green	QE-415	74	9.03	31.37	1.00	2.71	2.30	17.83	0.82	60.81	17.82
Interlake Green	QE-432	186	9.20	31.88	0.98	2.70	2.30	17.39	0.81	150.58	46.37
McCoy Green	QE-441	16	8.56	25.11	0.96	2.71	2.30	17.83	0.79	12.62	2.92
AGN Standard Green	QE-466	991	8.95	30.55	1.00	2.71	2.30	17.83	0.82	814.34	230.32
Andersen Orange	QE-522	782	9.17	33.31	0.99	2.57	2.30	11.74	0.87	683.30	203.03
Interlake Orange	QE-535	109	8.98	31.45	1.00	2.63	2.30	14.35	0.86	93.36	26.11
AOR Standard Orange	QE-566	52	9.27	39.19	1.00	2.71	2.30	17.83	0.82	42.73	16.06
Andersen Yellow	QE-569	126	9.34	37.20	1.00	2.61	2.30	13.48	0.87	109.02	37.21
Pantone Yellow	QE-572	30	9.37	37.85	1.00	2.55	2.30	10.87	0.89	26.74	9.04
Safety Yellow	QE-580	60	9.27	36.82	0.99	2.38	2.30	3.48	0.96	57.33	17.41
Andersen Gray	QE-647	21	9.27	33.41	1.00	2.66	2.30	15.65	0.84	17.71	5.53
Home Depot Beige	QE-850	937	9.55	36.35	1.00	2.58	2.30	12.17	0.88	822.93	276.48
Andersen Tans	QE-854	10	9.65	18.78	0.98	2.58	2.30	12.17	0.86	8.61	1.54
Royal Blue	QE-929	813	8.87	30.13	1.00	2.71	2.30	17.83	0.82	668.07	184.69
Sturdi-Built Blue	QE-930	140	8.77	27.53	0.95	2.71	2.30	17.83	0.78	109.29	28.73
V-OR	VS-002	38	8.96	35.24	2.36	2.36	2.30	2.61	2.30	87.34	10.20
									<b>TOTALS:</b>	<b>3,765</b>	<b>1,113</b>
<b>December-04</b>											
Andersen Whites	QE-126	25	9.72	37.96	0.98	2.49	2.30	8.26	0.90	22.48	7.84
Designer White	QE-147	5	9.67	36.02	0.90	2.47	2.30	7.39	0.83	4.17	1.48
Vista Green	QE-415	5	9.03	31.37	1.00	2.71	2.30	17.83	0.82	4.11	1.20
Johns Import Green	QE-424	5	8.95	30.68	1.00	2.68	2.30	16.52	0.83	4.17	1.17
Interlake Green	QE-432	58	9.20	31.88	0.98	2.70	2.30	17.39	0.81	46.95	14.46
AGN Standard Green	QE-466	1327	8.95	30.55	1.00	2.71	2.30	17.83	0.82	1090.45	308.41
Andersen Orange	QE-522	1304	9.17	33.31	0.99	2.57	2.30	11.74	0.87	1139.41	338.56
Interlake Orange	QE-535	60	8.96	31.45	1.00	2.63	2.30	14.35	0.86	51.39	14.37
AOR Standard Orange	QE-566	57	9.27	39.19	1.00	2.71	2.30	17.83	0.82	46.84	17.60
Andersen Yellow	QE-569	213	9.34	37.20	1.00	2.61	2.30	13.48	0.87	184.29	62.91
Pantone Yellow	QE-572	46	9.37	37.85	1.00	2.55	2.30	10.87	0.89	41.00	13.87
Andersen Summit Yellow	QE-581	1	9.25	35.83	1.00	2.68	2.30	16.52	0.83	0.83	0.28
Andersen Gray	QE-647	170	9.27	33.41	1.00	2.66	2.30	15.65	0.84	143.39	44.75
Kwal Gray	QE-649	5	8.73	28.21	1.00	2.71	2.30	17.83	0.82	4.11	1.05
Fire Red	QE-713	10	8.61	28.20	1.00	2.66	2.30	15.65	0.84	8.43	2.08
Home Depot Beige	QE-850	18	9.55	36.35	1.00	2.58	2.30	12.17	0.88	15.81	5.31
Royal Blue	QE-929	191	8.87	30.13	1.00	2.71	2.30	17.83	0.82	156.95	43.39
Sturdi-Built Blue	QE-930	21	8.77	27.53	0.95	2.71	2.30	17.83	0.78	16.39	4.31
SBL Blue	QE-991	15	9.07	31.19	1.00	2.69	2.30	16.96	0.83	12.46	3.61
									<b>TOTALS:</b>	<b>2,971</b>	<b>879</b>
									<b>QTR-2</b>	<b>8,521</b>	<b>2,498</b>

Material	Product Code	Liquid	Density	Solids Content	VOC as applied	VOC	Rule Limit	Reduction	Surplus	VOC	PM10 Emissions
		Usage				less water & exempts		for rule compliance	as applied	Emissions	
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	(lb/gal)	(lb)	(lb)
<b>January-05</b>											
Vista Green	QE-415	18	9.03	31.37	1.00	2.71	2.30	17.83	0.82	14.79	4.33
Interlake Green	QE-432	133	9.20	31.88	0.98	2.70	2.30	17.39	0.81	107.67	33.16
McCoy Green	QE-441	23	8.56	25.11	0.96	2.71	2.30	17.83	0.79	18.14	4.20
AGN Standard Green	QE-486	827	8.95	30.55	1.00	2.71	2.30	17.83	0.82	679.58	192.20
Vitmar Green	QE-474	35	8.28	32.95	0.89	2.49	2.30	8.26	0.82	28.58	9.10
Andersen Orange	QE-522	643	9.17	33.31	0.99	2.57	2.30	11.74	0.87	561.84	166.95
Interlake Orange	QE-535	170	8.96	31.45	1.00	2.63	2.30	14.35	0.86	145.61	40.72
AOR Standard Orange	QE-566	19	9.27	39.19	1.00	2.71	2.30	17.83	0.82	15.61	5.87
Andersen Yellow	QE-569	39	9.34	37.20	1.00	2.61	2.30	13.48	0.87	33.74	11.52
Pantone Yellow	QE-572	21	9.37	37.85	1.00	2.55	2.30	10.87	0.89	18.72	6.33
Monarch Orange	QE-576	15	8.81	29.20	1.00	2.70	2.30	17.39	0.83	12.39	3.28
Dorfman Orange	QE-579	50	9.22	36.99	1.00	2.71	2.30	17.83	0.82	41.09	14.49
Andersen Summit Yellow	QE-581	110	9.25	35.83	1.00	2.68	2.30	16.52	0.83	91.83	30.99
Andersen Gray	QE-647	108	9.27	33.41	1.00	2.66	2.30	15.65	0.84	89.41	27.90
Fire Red	QE-713	62	8.61	28.20	1.00	2.66	2.30	15.65	0.84	52.30	12.80
Crimson Red	QE-737	24	8.69	27.47	0.94	2.58	2.30	12.17	0.83	19.81	4.81
Bagel Tan	QE-848	40	9.60	36.68	1.00	2.64	2.30	14.78	0.85	34.09	11.97
Food Max Beige	QE-855	15	9.61	34.62	0.93	2.62	2.30	13.91	0.80	12.01	4.24
Royal Blue	QE-929	10	8.87	30.13	1.00	2.71	2.30	17.83	0.82	8.22	2.27
Sturdi-Built Blue	QE-930	107	8.77	27.53	0.95	2.71	2.30	17.83	0.78	83.53	21.96
SBL Blue	QE-991	45	9.07	31.19	1.00	2.69	2.30	16.96	0.83	37.37	10.82
Hannibal Blue	QE-992	38	8.66	29.96	1.00	2.71	2.30	17.83	0.82	31.23	8.37
Gloss Black	QE-J204	61	8.48	24.13	0.97	2.71	2.30	17.83	0.80	48.62	10.61
V-OR	VS-002	311	8.96	35.24	2.36	2.36	2.30	2.61	2.30	714.81	83.47
									<b>TOTALS:</b>	<b>2,901</b>	<b>722</b>
<b>February-05</b>											
Vista Green	QE-415	12	9.03	31.37	1.00	2.71	2.30	17.83	0.82	9.86	2.89
Interlake Green	QE-432	26	9.20	31.88	0.98	2.70	2.30	17.39	0.81	21.05	6.48
McCoy Green	QE-441	35	8.56	25.11	0.96	2.71	2.30	17.83	0.79	27.61	6.39
AGN Standard Green	QE-486	656	8.95	30.55	1.00	2.71	2.30	17.83	0.82	539.06	152.46
Andersen Orange	QE-522	489	9.17	33.31	0.99	2.57	2.30	11.74	0.87	427.28	128.96
AOR Standard Orange	QE-566	26	9.27	39.19	1.00	2.71	2.30	17.83	0.82	21.37	8.03
Andersen Yellow	QE-569	98	9.34	37.20	1.00	2.61	2.30	13.48	0.87	84.79	28.94
Andersen Summit Yellow	QE-581	27	9.25	35.83	1.00	2.68	2.30	16.52	0.83	22.54	7.61
Andersen Gray	QE-647	238	9.27	33.41	1.00	2.66	2.30	15.65	0.84	200.75	62.65
Fire Red	QE-713	65	8.61	28.20	1.00	2.66	2.30	15.65	0.84	54.83	13.41
Bagel Tan	QE-848	5	9.60	36.68	1.00	2.64	2.30	14.78	0.85	4.26	1.50
Royal Blue	QE-929	20	8.87	30.13	1.00	2.71	2.30	17.83	0.82	16.43	4.54
Sturdi-Built Blue	QE-930	89	8.77	27.53	0.95	2.71	2.30	17.83	0.78	69.48	18.26
Reno Blue	QE-964	12	8.73	28.29	1.00	2.71	2.30	17.83	0.82	9.86	2.52
SBL Blue	QE-991	7	9.07	31.19	1.00	2.69	2.30	16.96	0.83	5.81	1.88
Gloss Black	QE-J204	30	8.48	24.13	0.97	2.71	2.30	17.83	0.80	23.91	5.22
V-AGN	VS-001	628	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1443.42	168.55
V-OR	VS-002	386	8.96	35.24	2.36	2.36	2.30	2.61	2.30	887.20	103.60
									<b>TOTALS:</b>	<b>3,870</b>	<b>722</b>

Material	Product Code	Liquid Usage (gal)	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)	VOC Rule Limit (lb/gal)	Reduction for rule compliance (%)	Surplus VOC as applied (lb/gal)	VOC Emissions (lb)	PM10 Emissions (lb)
<b>March-05</b>											
Andersen Off White	QE-113	320	9.75	37.98	0.99	2.53	2.30	10.00	0.89	285.12	100.72
Designer White	QE-147	25	9.67	36.02	0.90	2.47	2.30	7.39	0.83	20.84	7.40
Vista Green	QE-415	9	9.03	31.37	1.00	2.71	2.30	17.83	0.82	7.40	2.17
Interlake Green	QE-432	83	9.20	31.88	0.98	2.70	2.30	17.39	0.81	67.19	20.69
McCoy Green	QE-441	32	8.56	25.11	0.96	2.71	2.30	17.83	0.79	25.24	5.85
AGN Standard Green	QE-466	806	8.95	30.55	1.00	2.71	2.30	17.83	0.82	662.32	187.32
Caterpillar Yellow	QE-510	5	9.05	32.60	1.33	2.83	2.30	23.04	1.02	5.12	1.25
Andersen Orange	QE-522	278	9.17	33.31	0.99	2.57	2.30	11.74	0.87	242.91	72.18
Interlake Orange	QE-535	241	8.96	31.45	1.00	2.63	2.30	14.35	0.86	206.42	57.73
AOR Standard Orange	QE-566	103	9.27	39.19	1.00	2.71	2.30	17.83	0.82	84.84	31.81
Andersen Yellow	QE-569	165	9.34	37.20	1.00	2.61	2.30	13.48	0.87	142.76	48.73
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Andersen Gray	QE-647	69	9.27	33.41	1.00	2.66	2.30	15.65	0.84	58.20	18.16
Fire Red	QE-713	43	8.61	28.20	1.00	2.66	2.30	15.65	0.84	36.27	8.87
Royal Blue	QE-929	344	8.87	30.13	1.00	2.71	2.30	17.83	0.82	282.68	78.14
Sturdi-Built Blue	QE-930	59	8.77	27.53	0.95	2.71	2.30	17.83	0.78	46.08	12.11
Gloss Black	QE-J204	39	8.48	24.13	0.97	2.71	2.30	17.83	0.80	31.09	6.78
V-AGN	VS-001	323	8.96	35.24	2.36	2.36	2.30	2.61	2.30	742.39	86.69
V-OR	VS-002	401	8.96	35.24	2.36	2.36	2.30	2.61	2.30	921.67	107.62
									<b>TOTALS:</b>	<b>3,594</b>	<b>757</b>
									<b>QTR-3</b>	<b>6,802</b>	<b>1,451</b>
<b>April-05</b>											
Vista Green	QE-415	9	9.03	31.37	1.00	2.71	2.30	17.83	0.82	7.40	2.17
Interlake Green	QE-432	71	9.20	31.88	0.98	2.70	2.30	17.39	0.81	57.48	17.70
McCoy Green	QE-441	3	8.56	25.11	0.96	2.71	2.30	17.83	0.79	2.37	0.55
AGN Standard Green	QE-466	421	8.95	30.55	1.00	2.71	2.30	17.83	0.82	345.95	97.84
Caterpillar Yellow	QE-510	11	9.05	32.60	1.33	2.83	2.30	23.04	1.02	11.26	2.76
Interlake Orange	QE-535	79	8.96	31.45	1.00	2.63	2.30	14.35	0.86	67.67	18.92
AOR Standard Orange	QE-566	16	9.27	39.19	1.00	2.71	2.30	17.83	0.82	13.15	4.94
Andersen Yellow	QE-569	5	9.34	37.20	1.00	2.61	2.30	13.48	0.87	4.33	1.48
Lodi Metal Tech Orange	QE-570	5	8.71	28.98	1.00	2.71	2.30	17.83	0.82	4.11	1.07
Pantone Yellow	QE-572	564	9.37	37.85	1.00	2.55	2.30	10.87	0.89	502.70	170.02
Dorfman Orange	QE-579	91	9.22	36.99	1.00	2.71	2.30	17.83	0.82	74.78	26.38
Andersen Gray	QE-647	39	9.27	33.41	1.00	2.66	2.30	15.65	0.84	32.90	10.27
Kwal Gray	QE-649	5	8.73	28.21	1.00	2.71	2.30	17.83	0.82	4.11	1.05
Allied HSF Gray	QE-654	88	9.48	34.48	1.00	2.71	2.30	17.83	0.82	72.31	24.45
Royal Blue	QE-929	94	8.87	30.13	1.00	2.71	2.30	17.83	0.82	77.24	21.35
Sturdi-Built Blue	QE-930	589	8.77	27.53	0.95	2.71	2.30	17.83	0.78	459.80	120.88
Gloss Black	QE-J204	15	8.48	24.13	0.97	2.71	2.30	17.83	0.80	11.98	2.61
V-AGN	VS-001	651	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1496.28	174.72
V-OR	VS-002	748	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1714.63	200.22
									<b>TOTALS:</b>	<b>4,960</b>	<b>899</b>

Material	Product Code	Liquid Usage	Density	Solids Content	VOC as applied	VOC less water & exempts	Rule Limit	Reduction for rule compliance	Surplus VOC as applied	VOC Emissions	PM10 Emissions
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	(lb/gal)	(lb)	(lb)
<b>May-05</b>											
Lozier Almond	QE-117	14	9.57	36.34	1.00	2.62	2.30	13.91	0.86	12.05	4.14
Vista Green	QE-415	162	9.03	31.37	1.00	2.71	2.30	17.83	0.82	133.12	39.01
Johns Import Green	QE-424	30	8.95	30.68	1.00	2.68	2.30	18.52	0.83	25.04	7.00
Interlake Green	QE-432	38	9.20	31.88	0.98	2.70	2.30	17.39	0.81	30.78	9.47
McCoy Green	QE-441	49	8.56	25.11	0.96	2.71	2.30	17.83	0.79	38.65	8.95
AGN Standard Green	QE-466	399	8.95	30.55	1.00	2.71	2.30	17.83	0.82	327.87	92.73
Andersen Orange	QE-522	660	9.17	33.31	0.99	2.57	2.30	11.74	0.87	576.70	171.36
Interlake Orange	QE-535	34	8.96	31.45	1.00	2.63	2.30	14.35	0.86	29.12	8.14
AOR Standard Orange	QE-566	279	9.27	39.19	1.00	2.71	2.30	17.83	0.82	229.27	86.15
Andersen Yellow	QE-569	20	9.34	37.20	1.00	2.61	2.30	13.48	0.87	17.30	5.91
Lodi Metal Tech Orange	QE-570	12	8.71	28.98	1.00	2.71	2.30	17.83	0.82	9.86	2.57
Pantone Yellow	QE-572	31	9.37	37.85	1.00	2.55	2.30	10.87	0.89	27.63	9.35
Dorfman Orange	QE-579	55	9.22	36.99	1.00	2.71	2.30	17.83	0.82	45.20	15.94
Frazier Yellow	QE-582	20	9.04	31.25	0.98	2.63	2.30	14.35	0.84	16.79	4.80
Andersen Gray	QE-647	83	9.27	33.41	1.00	2.66	2.30	15.65	0.84	70.01	21.85
Skecher's Gray	QE-655	86	9.17	32.46	1.00	2.71	2.30	17.83	0.82	70.67	21.76
Fire Red	QE-713	28	8.61	28.20	1.00	2.66	2.30	15.65	0.84	23.62	5.78
Royal Blue	QE-929	190	8.87	30.13	1.00	2.71	2.30	17.83	0.82	156.13	43.16
Sturdi-Built Blue	QE-930	18	8.77	27.53	0.95	2.71	2.30	17.83	0.78	14.05	3.69
Unarco Blue	QE-963	155	8.78	28.68	0.99	2.71	2.30	17.83	0.81	126.10	33.18
Blue Aquatech	QE-981	40	8.70	27.48	0.50	1.88	2.30	0.00	0.50	20.00	8.13
Hannibal Blue	QE-992	138	8.65	29.96	1.00	2.71	2.30	17.83	0.82	113.40	30.40
Gloss Black	QE-J204	18	8.48	24.13	0.97	2.71	2.30	17.83	0.80	14.35	3.13
V-AGN	VS-001	695	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1597.41	188.53
V-OR	VS-002	803	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1845.64	215.52
									<b>TOTALS:</b>	<b>5,559</b>	<b>1,035</b>
<b>June-05</b>											
Andersen Off White	QE-113	309	9.75	37.98	0.99	2.53	2.30	10.00	0.89	275.32	97.26
Lozier Almond	QE-117	30	9.57	36.34	1.00	2.62	2.30	13.91	0.86	25.83	8.87
Vista Green	QE-415	17	9.03	31.37	1.00	2.71	2.30	17.83	0.82	13.97	4.09
Johns Import Green	QE-424	10	8.95	30.68	1.00	2.68	2.30	16.52	0.83	8.35	2.33
Interlake Green	QE-432	154	9.20	31.88	0.98	2.70	2.30	17.39	0.81	124.67	38.39
AGN Standard Green	QE-466	610	8.95	30.55	1.00	2.71	2.30	17.83	0.82	501.26	141.77
Caterpillar Yellow	QE-510	9	9.05	32.60	1.33	2.83	2.30	23.04	1.02	9.21	2.26
Andersen Orange	QE-522	330	9.17	33.31	0.99	2.57	2.30	11.74	0.87	288.35	85.68
Interlake Orange	QE-535	184	8.96	31.45	1.00	2.63	2.30	14.35	0.86	157.60	44.07
AOR Standard Orange	QE-566	67	9.27	39.19	1.00	2.71	2.30	17.83	0.82	55.06	20.69
Andersen Yellow	QE-569	43	9.34	37.20	1.00	2.61	2.30	13.48	0.87	37.20	12.70
Pantone Yellow	QE-572	182	9.37	37.85	1.00	2.55	2.30	10.87	0.89	162.22	54.87
Cool Gray	QE-617	193	10.08	43.80	1.35	2.81	2.30	22.17	1.05	202.78	72.43
Andersen Gray	QE-647	48	9.27	33.41	1.00	2.66	2.30	15.65	0.84	40.49	12.64
Fire Red	QE-713	9	8.61	28.20	1.00	2.66	2.30	15.65	0.84	7.59	1.86
Royal Blue	QE-929	355	8.87	30.13	1.00	2.71	2.30	17.83	0.82	291.72	80.64
Sturdi-Built Blue	QE-930	217	8.77	27.53	0.95	2.71	2.30	17.83	0.78	169.40	44.53
Unarco Blue	QE-963	47	8.78	28.68	0.99	2.71	2.30	17.83	0.81	38.24	10.06
Kwal Blue	QE-987	5	8.72	28.22	0.99	2.70	2.30	17.39	0.82	4.09	1.05
Hannibal Blue	QE-992	3	8.65	29.96	1.00	2.71	2.30	17.83	0.82	2.47	0.66
Gloss Black	QE-J204	182	8.48	24.13	0.97	2.71	2.30	17.83	0.80	145.07	31.66
V-AGN	VS-001	201	8.96	35.24	2.36	2.36	2.30	2.61	2.30	481.99	53.95
V-OR	VS-002	951	8.96	35.24	2.36	2.36	2.30	2.61	2.30	2185.81	255.24
									<b>TOTALS:</b>	<b>4,908</b>	<b>972</b>
									<b>QTR-4</b>	<b>15,427</b>	<b>2,905</b>

Material	Product Code	Liquid	Solids	VOC	VOC	Rule Limit	Reduction for rule compliance	Surplus VOC as applied	VOC Emissions	PM10 Emissions	
		Usage	Density	Content	as applied						less water & exempts
		(gal)	(lb/gal)	(% by wt)	(lb/gal)						(lb/gal)
<b>July-05</b>											
Andersen Off White	QE-113	44	9.75	37.98	0.99	2.53	2.30	10.00	0.89	39.20	13.85
Lozier Almond	QE-117	15	9.57	36.34	1.00	2.62	2.30	13.91	0.86	12.91	4.43
Designer White	QE-147	20	9.67	36.02	0.90	2.47	2.30	7.39	0.83	16.67	5.92
Vista Green	QE-415	11	9.03	31.37	1.00	2.71	2.30	17.83	0.82	9.04	2.65
Johns Import Green	QE-424	3	8.95	30.68	1.00	2.68	2.30	18.52	0.83	2.50	0.70
Interlake Green	QE-432	30	9.20	31.88	0.98	2.70	2.30	17.39	0.81	24.29	7.48
McCoy Green	QE-441	35	8.56	25.11	0.86	2.71	2.30	17.83	0.79	27.61	6.39
AGN Standard Green	QE-466	380	8.95	30.55	1.00	2.71	2.30	17.83	0.82	312.26	88.32
Caterpillar Yellow	QE-510	2	9.05	32.60	1.33	2.83	2.30	23.04	1.02	2.05	0.50
Andersen Orange	QE-522	660	9.17	33.31	0.99	2.57	2.30	11.74	0.87	576.70	171.36
Interlake Orange	QE-535	108	8.96	31.45	1.00	2.63	2.30	14.35	0.86	92.50	25.87
AOR Standard Orange	QE-566	248	9.27	39.19	1.00	2.71	2.30	17.83	0.82	203.79	76.58
Andersen Yellow	QE-569	374	9.34	37.20	1.00	2.61	2.30	13.48	0.87	323.59	110.45
Pantone Yellow	QE-572	364	9.37	37.85	1.00	2.55	2.30	10.87	0.89	324.43	109.73
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Yardbird Gray	QE-620	15	9.19	32.58	1.00	2.71	2.30	17.83	0.82	12.33	3.82
Andersen Gray	QE-647	60	9.27	33.41	1.00	2.66	2.30	15.65	0.84	50.61	15.80
Kwal Gray	QE-649	5	8.73	28.21	1.00	2.71	2.30	17.83	0.82	4.11	1.05
BNR Red	QE-739	75	8.58	28.66	0.98	2.54	2.30	10.43	0.88	65.83	15.68
Royal Blue	QE-929	128	8.87	30.13	1.00	2.71	2.30	17.83	0.82	105.18	29.08
Sturdi-Built Blue	QE-930	235	8.77	27.53	0.95	2.71	2.30	17.83	0.78	183.45	48.23
Reno Blue	QE-964	9	8.73	28.29	1.00	2.71	2.30	17.83	0.82	7.40	1.89
Gloss Black	QE-J204	53	8.48	24.13	0.97	2.71	2.30	17.83	0.80	42.25	9.22
V-AGN	VS-001	618	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1420.43	165.86
V-OR	VS-002	141	8.96	35.24	2.36	2.36	2.30	2.61	2.30	324.08	37.84
									<b>TOTALS:</b>	<b>4,142</b>	<b>938</b>
<b>August-05</b>											
Vista Green	QE-415	7	9.03	31.37	1.00	2.71	2.30	17.83	0.82	5.75	1.69
Interlake Green	QE-432	108	9.20	31.88	0.98	2.70	2.30	17.39	0.81	87.43	26.92
McCoy Green	QE-441	7	8.56	25.11	0.86	2.71	2.30	17.83	0.79	5.52	1.28
AGN Standard Green	QE-466	715	8.95	30.55	1.00	2.71	2.30	17.83	0.82	587.54	166.17
Caterpillar Yellow	QE-510	5	9.05	32.60	1.33	2.83	2.30	23.04	1.02	5.12	1.25
Andersen Orange	QE-522	716	9.17	33.31	0.99	2.57	2.30	11.74	0.87	625.63	185.90
Interlake Orange	QE-535	109	8.96	31.45	1.00	2.63	2.30	14.35	0.86	93.36	26.11
AOR Standard Orange	QE-566	285	9.27	39.19	1.00	2.71	2.30	17.83	0.82	234.20	88.01
Andersen Yellow	QE-569	133	9.34	37.20	1.00	2.61	2.30	13.48	0.87	115.07	39.28
Pantone Yellow	QE-572	143	9.37	37.85	1.00	2.55	2.30	10.87	0.89	127.46	43.11
Yardbird Gray	QE-620	3	9.19	32.58	1.00	2.71	2.30	17.83	0.82	2.47	0.76
Andersen Gray	QE-647	359	9.27	33.41	1.00	2.66	2.30	15.65	0.84	302.81	94.51
Kwal Gray	QE-649	5	8.73	28.21	1.00	2.71	2.30	17.83	0.82	4.11	1.05
Fire Red	QE-713	23	8.61	28.20	1.00	2.66	2.30	15.65	0.84	19.40	4.75
Royal Blue	QE-929	158	8.87	30.13	1.00	2.71	2.30	17.83	0.82	129.83	35.89
Sturdi-Built Blue	QE-930	109	8.77	27.53	0.95	2.71	2.30	17.83	0.78	85.09	22.37
Blue Aquatech Enamel	QE-995	10	8.47	25.74	1.00	2.71	2.30	17.83	0.82	8.22	1.85
Gloss Black	QE-J204	41	8.48	24.13	0.97	2.71	2.30	17.83	0.80	32.68	7.13
V-AGN	VS-001	702	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1613.50	188.41
V-OR	VS-002	748	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1719.23	200.75
									<b>TOTALS:</b>	<b>5,804</b>	<b>1,137</b>



Material	Product Code	Liquid Usage	Density	Solids Content	VOC as applied	VOC less water & exempts	Rule Limit	Reduction for rule compliance	Surplus VOC as applied	VOC Emissions	PM10 Emissions
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	(lb/gal)	(lb)	(lb)
<b>September-05</b>											
Lozier Almond	QE-117	30	9.57	36.34	1.00	2.62	2.30	13.91	0.86	25.83	8.87
Vista Green	QE-415	75	9.03	31.37	1.00	2.71	2.30	17.83	0.82	61.83	18.06
Interlake Green	QE-432	208	9.20	31.88	0.98	2.70	2.30	17.39	0.81	168.39	51.85
McCoy Green	QE-441	5	8.56	25.11	0.96	2.71	2.30	17.83	0.79	3.94	0.91
AGN Standard Green	QE-466	1399	8.95	30.55	1.00	2.71	2.30	17.83	0.82	1149.61	325.14
Andersen Orange	QE-522	1539	9.17	33.31	0.99	2.57	2.30	11.74	0.87	1344.75	399.58
Interlake Orange	QE-535	300	8.96	31.45	1.00	2.63	2.30	14.35	0.86	256.96	71.86
AOR Standard Orange	QE-566	15	9.27	39.19	1.00	2.71	2.30	17.83	0.82	12.33	4.63
Andersen Yellow	QE-569	15	9.34	37.20	1.00	2.61	2.30	13.48	0.87	12.98	4.43
Pantone Yellow	QE-572	96	9.37	37.85	1.00	2.55	2.30	10.87	0.89	85.57	28.94
Inca Yellow	QE-574	32	9.26	36.76	1.00	2.60	2.30	13.04	0.87	27.83	9.26
Andersen Summit Yellow	QE-581	29	9.25	35.83	1.00	2.68	2.30	16.52	0.83	24.21	8.17
Andersen Gray	QE-647	290	9.27	33.41	1.00	2.66	2.30	15.65	0.84	244.61	76.34
Fire Red	QE-713	120	8.61	28.20	1.00	2.66	2.30	15.65	0.84	101.22	24.77
Royal Blue	QE-929	58	8.87	30.13	1.00	2.71	2.30	17.83	0.82	47.66	13.18
Sturdi-Built Blue	QE-930	40	8.77	27.53	0.95	2.71	2.30	17.83	0.78	31.23	8.21
Inca Blue	QE-989	15	8.88	26.72	0.97	2.71	2.30	17.83	0.80	11.98	2.96
SBL Blue	QE-991	9	9.07	31.19	1.00	2.69	2.30	16.96	0.83	7.47	2.16
Gloss Black	QE-J204	19	8.48	24.13	0.97	2.71	2.30	17.83	0.80	15.14	3.30
V-AGN	VS-001	430	8.96	35.24	2.36	2.36	2.30	2.61	2.30	988.33	115.41
V-OR	VS-002	151	8.96	35.24	2.36	2.36	2.30	2.61	2.30	347.06	40.53
<b>TOTALS:</b>										<b>4,943</b>	<b>1,210</b>
<b>QTR-5</b>										<b>14,889</b>	<b>3,285</b>
<b>October-05</b>											
Andersen White	QE-132	18	9.95	39.59	0.50	1.66	2.30	0.00	0.50	9.00	6.03
Vista Green	QE-415	20	9.03	31.37	1.00	2.71	2.30	17.83	0.82	16.43	4.82
Interlake Green	QE-432	51	9.20	31.88	0.98	2.70	2.30	17.39	0.81	41.29	12.71
AGN Standard Green	QE-466	1131	8.95	30.55	1.00	2.71	2.30	17.83	0.82	929.39	262.85
Caterpillar Yellow	QE-510	3	9.05	32.60	1.33	2.83	2.30	23.04	1.02	3.07	0.75
Andersen Orange	QE-522	1045	9.17	33.31	0.99	2.57	2.30	11.74	0.87	913.10	271.32
Interlake Orange	QE-535	55	8.96	31.45	1.00	2.63	2.30	14.35	0.86	47.11	13.17
AOR Standard Orange	QE-566	337	9.27	39.19	1.00	2.71	2.30	17.83	0.82	276.93	104.06
Andersen Yellow	QE-569	185	9.34	37.20	1.00	2.61	2.30	13.48	0.87	160.07	54.64
Pantone Yellow	QE-572	89	9.37	37.85	1.00	2.55	2.30	10.87	0.89	79.33	26.83
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Andersen Gray	QE-647	400	9.27	33.41	1.00	2.66	2.30	15.65	0.84	337.39	105.30
Crimson Red	QE-737	47	8.59	27.47	0.94	2.58	2.30	12.17	0.83	38.80	9.43
Inca Putty	QE-851	214	9.32	33.34	0.92	2.52	2.30	9.57	0.83	178.05	56.52
CSB Brown	QE-858	181	9.10	32.04	1.00	2.71	2.30	17.83	0.82	148.73	44.86
Royal Blue	QE-929	17	8.87	30.13	1.00	2.71	2.30	17.83	0.82	13.97	3.86
Sturdi-Built Blue	QE-930	223	8.77	27.53	0.95	2.71	2.30	17.83	0.78	174.09	45.76
Frazier Blue	QE-988	6	8.72	28.16	1.00	2.71	2.30	17.83	0.82	4.93	1.25
Gloss Black	QE-J204	27	8.48	24.13	0.97	2.71	2.30	17.83	0.80	21.52	4.70
V-AGN	VS-001	599	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1376.76	160.76
V-OR	VS-002	689	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1583.62	184.92
<b>TOTALS:</b>										<b>6,364</b>	<b>1,378</b>

Material	Product Code	Liquid Usage (gal)	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)	Rule Limit (lb/gal)	Reduction for rule compliance (%)	Surplus VOC as applied (lb/gal)	VOC Emissions (lb)	PM10 Emissions (lb)
<b>November-05</b>											
Andersen Off White	QE-113	25	9.75	37.98	0.99	2.53	2.30	10.00	0.89	22.28	7.87
Vista Green	QE-415	26	9.03	31.37	1.00	2.71	2.30	17.83	0.82	21.37	6.26
Johns Import Green	QE-424	151	8.95	30.68	1.00	2.68	2.30	16.52	0.83	126.05	35.24
Interlake Green	QE-432	101	9.20	31.88	0.98	2.70	2.30	17.39	0.81	81.77	25.18
AGN Standard Green	QE-466	55	8.95	30.55	1.00	2.71	2.30	17.83	0.82	45.20	12.78
Interlake Orange	QE-535	109	8.96	31.45	1.00	2.63	2.30	14.35	0.86	93.36	26.11
AOR Standard Orange	QE-566	178	9.27	39.19	1.00	2.71	2.30	17.83	0.82	146.27	54.97
Andersen Yellow	QE-569	134	9.34	37.20	1.00	2.61	2.30	13.48	0.87	115.94	39.57
Pantone Yellow	QE-572	46	9.37	37.85	1.00	2.55	2.30	10.87	0.89	41.00	13.87
Inca Yellow	QE-574	728	9.26	36.76	1.00	2.60	2.30	13.04	0.87	633.04	210.84
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Andersen Gray	QE-647	86	9.27	33.41	1.00	2.66	2.30	15.65	0.84	72.54	22.64
Fire Red	QE-713	40	8.61	28.20	1.00	2.66	2.30	15.65	0.84	33.74	8.26
Inca Putty	QE-851	5	9.32	33.34	0.92	2.52	2.30	9.57	0.83	4.16	1.32
Royal Blue	QE-929	29	8.87	30.13	1.00	2.71	2.30	17.83	0.82	23.83	6.59
Sturdi-Built Blue	QE-930	174	8.77	27.53	0.95	2.71	2.30	17.83	0.78	135.83	35.71
Inca Blue	QE-989	625	8.68	26.72	0.97	2.71	2.30	17.83	0.80	498.18	123.21
V-AGN	VS-001	949	8.96	35.24	2.36	2.36	2.30	2.61	2.30	2181.21	254.70
V-OR	VS-002	1088	8.96	35.24	2.36	2.36	2.30	2.61	2.30	2523.68	294.69
									<b>TOTALS:</b>	<b>6,788</b>	<b>1,175</b>
<b>December-05</b>											
Lozier Almond	QE-117	2	9.57	36.34	1.00	2.62	2.30	13.91	0.86	1.72	0.59
Vista Green	QE-415	15	9.03	31.37	1.00	2.71	2.30	17.83	0.82	12.33	3.61
Interlake Green	QE-432	122	9.20	31.88	0.98	2.71	2.30	17.83	0.81	98.25	30.41
McCoy Green	QE-441	3	8.56	25.11	0.96	2.71	2.30	17.83	0.79	2.37	0.55
AGN Standard Green	QE-466	792	8.95	30.55	1.00	2.71	2.30	17.83	0.82	650.82	184.07
Andersen Orange	QE-522	355	9.17	33.31	0.99	2.57	2.30	11.74	0.87	310.19	92.17
Interlake Orange	QE-535	213	8.96	31.45	1.00	2.63	2.30	14.35	0.86	182.44	51.02
AOR Standard Orange	QE-566	178	9.27	39.19	1.00	2.71	2.30	17.83	0.82	146.27	54.97
Andersen Yellow	QE-569	20	9.34	37.20	1.00	2.61	2.30	13.48	0.87	17.30	5.91
Pantone Yellow	QE-572	38	9.37	37.85	1.00	2.55	2.30	10.87	0.89	33.87	11.46
Inca Yellow	QE-574	774	9.26	36.76	1.00	2.60	2.30	13.04	0.87	673.04	223.95
Dorfman Orange	QE-579	15	9.22	36.99	1.00	2.71	2.30	17.83	0.82	12.33	4.35
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Andersen Gray	QE-647	112	9.27	33.41	1.00	2.66	2.30	15.65	0.84	94.47	29.48
Kwal Gray	QE-649	5	8.73	28.21	1.00	2.71	2.30	17.83	0.82	4.11	1.05
Fire Red	QE-713	28	8.61	28.20	1.00	2.66	2.30	15.65	0.84	23.62	5.78
Andersen Reds	QE-733	55	8.67	29.45	0.98	2.57	2.30	11.74	0.86	47.57	11.94
Royal Blue	QE-929	20	8.87	30.13	1.00	2.71	2.30	17.83	0.82	16.43	4.54
Sturdi-Built Blue	QE-930	74	8.77	27.53	0.95	2.71	2.30	17.83	0.78	57.77	15.19
Inca Blue	QE-989	649	8.68	26.72	0.97	2.71	2.30	17.83	0.80	517.31	127.94
Gloss Black	QE-J204	3	8.48	24.13	0.97	2.71	2.30	17.83	0.80	2.39	0.52
V-AGN	VS-001	624	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1434.22	167.47
V-OR	VS-002	602	8.96	35.24	2.36	2.36	2.30	2.61	2.30	1383.66	161.57
									<b>TOTALS:</b>	<b>5,731</b>	<b>1,192</b>
									<b>QTR-6</b>	<b>18,883</b>	<b>3,745</b>

Material	Product Code	Liquid Usage (gal)	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)	Rule Limit (lb/gal)	Reduction for rule compliance (%)	Surplus VOC as applied (lb/gal)	VOC Emissions (lb)	PM10 Emissions (lb)
<b>January-06</b>											
Andersen White	QE-119	5	9.74	37.94	0.99	2.53	2.30	10.00	0.89	4.46	1.57
Vista Green	QE-415	29	9.03	31.37	1.00	2.71	2.30	17.83	0.82	23.83	6.98
Johns Import Green	QE-424	17	8.95	30.68	1.00	2.68	2.30	16.52	0.83	14.19	3.97
Interlake Green	QE-432	208	9.20	31.88	0.98	2.71	2.30	17.83	0.81	167.50	51.85
McCoy Green	QE-441	41	8.56	25.11	0.96	2.71	2.30	17.83	0.79	32.34	7.49
AGN Standard Green	QE-466	1339	8.95	30.55	1.00	2.71	2.30	17.83	0.82	1100.31	311.20
Andersen Orange	QE-522	1271	9.17	33.31	0.99	2.57	2.30	11.74	0.87	1110.58	330.00
Interlake Orange	QE-535	173	8.96	31.45	1.00	2.63	2.30	14.35	0.86	148.18	41.44
AOR Standard Orange	QE-566	750	9.27	39.19	1.00	2.71	2.30	17.83	0.82	616.30	231.60
Andersen Yellow	QE-569	49	9.34	37.20	1.00	2.61	2.30	13.48	0.87	42.40	14.47
Pantone Yellow	QE-572	82	9.37	37.85	1.00	2.55	2.30	10.87	0.89	73.09	24.72
Inca Yellow	QE-574	9	9.26	36.76	1.00	2.60	2.30	13.04	0.87	7.83	2.60
Andersen Gray	QE-647	135	9.27	33.41	1.00	2.66	2.30	15.65	0.84	113.87	35.54
Fire Red	QE-713	41	8.61	28.20	1.00	2.66	2.30	15.65	0.84	34.58	8.46
Kwal Red	QE-734	15	8.63	27.99	0.94	2.59	2.30	12.61	0.82	12.32	3.08
BNR Red	QE-739	74	8.58	28.66	0.98	2.54	2.30	10.43	0.88	64.95	15.47
Royal Blue	QE-929	310	8.87	30.13	1.00	2.71	2.30	17.83	0.82	254.74	70.42
Sturdi-Built Blue	QE-930	200	8.77	27.53	0.95	2.71	2.30	17.83	0.78	156.13	41.04
Gloss Black	QE-J204	13	8.48	24.13	0.97	2.71	2.30	17.83	0.80	10.36	2.26
<b>TOTALS:</b>									<b>3,984</b>	<b>1,203</b>	
<b>February-06</b>											
Andersen Off White	QE-113	114	9.75	37.98	0.99	2.53	2.30	10.00	0.89	101.57	35.88
Designer White	QE-147	23	9.67	36.02	0.90	2.47	2.30	7.39	0.83	19.17	6.81
Vista Green	QE-415	21	9.03	31.37	1.00	2.71	2.30	17.83	0.82	17.26	5.06
Interlake Green	QE-432	118	9.20	31.88	0.98	2.71	2.30	17.83	0.81	95.03	29.42
McCoy Green	QE-441	32	8.56	25.11	0.96	2.71	2.30	17.83	0.79	25.24	5.85
AGN Standard Green	QE-466	1461	8.95	30.55	1.00	2.71	2.30	17.83	0.82	1200.56	339.55
Andersen Orange	QE-522	899	9.17	33.31	0.99	2.57	2.30	11.74	0.87	785.53	233.41
Interlake Orange	QE-535	237	8.96	31.45	1.00	2.63	2.30	14.35	0.86	203.00	56.77
AOR Standard Orange	QE-566	50	9.27	39.19	1.00	2.71	2.30	17.83	0.82	41.09	15.44
Andersen Yellow	QE-569	197	9.34	37.20	1.00	2.61	2.30	13.48	0.87	170.45	58.18
Pantone Yellow	QE-572	90	9.37	37.85	1.00	2.55	2.30	10.87	0.89	80.22	27.13
Andersen Gray	QE-647	135	9.27	33.41	1.00	2.66	2.30	15.65	0.84	113.87	35.54
Fire Red	QE-713	41	8.61	28.20	1.00	2.66	2.30	15.65	0.84	34.58	8.46
Kwal Red	QE-734	15	8.63	27.99	0.94	2.59	2.30	12.61	0.82	12.32	3.08
BNR Red	QE-739	74	8.58	28.66	0.98	2.54	2.30	10.43	0.88	64.95	15.47
Royal Blue	QE-929	310	8.87	30.13	1.00	2.71	2.30	17.83	0.82	254.74	70.42
Sturdi-Built Blue	QE-930	168	8.77	27.53	0.95	2.71	2.30	17.83	0.78	131.15	34.48
Gloss Black	QE-J204	13	8.48	24.13	0.97	2.71	2.30	17.83	0.80	10.36	2.26
<b>TOTALS:</b>									<b>3,260</b>	<b>947</b>	

Material	Product Code	Liquid Usage	Density	Solids Content	VOC as applied	VOC less water & exempts	Rule Limit	Reduction for rule compliance	Surplus VOC as applied	VOC Emissions	PM10 Emissions
		(gal)	(lb/gal)	(% by wt)	(lb/gal)	(lb/gal)	(lb/gal)	(%)	(lb/gal)	(lb)	(lb)
<b>March-06</b>											
Lozier Almond	QE-117	51	9.57	36.34	1.00	2.62	2.30	13.91	0.86	43.90	15.08
Vista Green	QE-415	11	9.03	31.37	1.00	2.71	2.30	17.83	0.82	9.04	2.65
Interlake Green	QE-432	129	9.20	31.88	0.98	2.71	2.30	17.83	0.81	103.88	32.16
AGN Standard Green	QE-466	929	8.95	30.55	1.00	2.71	2.30	17.83	0.82	763.40	215.91
Lodi metal Tech Green	QE-478	10	8.93	29.78	0.90	2.54	2.30	10.43	0.81	8.08	2.26
Andersen Orange	QE-522	894	9.17	33.31	0.99	2.57	2.30	11.74	0.87	781.16	232.11
Interlake Orange	QE-535	124	8.98	31.45	1.00	2.63	2.30	14.35	0.86	108.21	29.70
AOR Standard Orange	QE-566	205	9.27	39.19	1.00	2.71	2.30	17.83	0.82	168.46	63.30
Andersen Yellow	QE-569	112	9.34	37.20	1.00	2.61	2.30	13.48	0.87	98.90	33.08
Lodi Metal Tech Orange	QE-570	10	8.71	28.98	1.00	2.71	2.30	17.83	0.82	8.22	2.15
Pantone Yellow	QE-572	497	9.37	37.85	1.00	2.55	2.30	10.87	0.89	442.98	149.82
Andersen Gray	QE-647	113	9.27	33.41	1.00	2.66	2.30	15.65	0.84	95.31	29.75
Toyota Gray	QE-664	110	9.91	39.32	1.00	2.55	2.30	10.87	0.89	98.04	36.43
Fire Red	QE-713	39	8.61	28.20	1.00	2.66	2.30	15.65	0.84	32.90	8.05
Kwal Red	QE-734	39	8.63	27.99	0.94	2.59	2.30	12.61	0.82	32.04	8.01
Bear Foot Pink	QE-736	15	9.67	36.07	0.90	2.47	2.30	7.39	0.83	12.50	4.45
Royal Blue	QE-929	303	8.87	30.13	1.00	2.71	2.30	17.83	0.82	248.99	68.83
Sturdi-Built Blue	QE-930	147	8.77	27.53	0.95	2.71	2.30	17.83	0.78	114.76	30.17
NC Blue	QE-951	15	8.77	30.93	1.17	2.83	2.30	23.04	0.90	13.51	3.48
Toyota Blue	QE-9003	104	8.84	27.74	0.81	2.63	2.30	14.35	0.69	72.15	21.68
Gloss Black	QE-J204	27	8.48	24.13	0.97	2.71	2.30	17.83	0.80	21.52	4.70
V-AGN	VS-001	330	8.96	35.24	2.36	2.36	2.30	2.61	2.30	758.48	88.57
V-OR	VS-002	330	8.96	35.24	2.36	2.36	2.30	2.61	2.30	758.48	88.57
									<b>TOTALS:</b>	<b>4,747</b>	<b>1,156</b>
									<b>QTR-7</b>	<b>11,990</b>	<b>3,306</b>
<b>April-06</b>											
Lozier Almond	QE-117	58	9.57	36.34	1.00	2.62	2.30	13.91	0.86	49.93	17.15
Andersen White	QE-119	444	9.74	37.94	0.99	2.53	2.30	10.00	0.89	395.60	139.46
Designer White	QE-147	20	9.67	36.02	0.90	2.47	2.30	7.39	0.83	16.67	5.92
Vista Green	QE-415	30	9.03	31.37	1.00	2.71	2.30	17.83	0.82	24.65	7.22
Interlake Green	QE-432	192	9.20	31.88	0.98	2.71	2.30	17.83	0.81	154.62	47.87
AGN Standard Green	QE-466	1012	8.95	30.55	1.00	2.71	2.30	17.83	0.82	831.80	235.20
Andersen Orange	QE-522	960	9.17	33.31	0.99	2.57	2.30	11.74	0.87	838.83	249.25
Interlake Orange	QE-535	234	8.96	31.45	1.00	2.63	2.30	14.35	0.86	200.43	56.05
AOR Standard Orange	QE-566	7	9.27	39.19	1.00	2.71	2.30	17.83	0.82	5.75	2.16
Andersen Yellow	QE-569	85	9.34	37.20	1.00	2.61	2.30	13.48	0.87	73.54	25.10
Pantone Yellow	QE-572	134	9.37	37.85	1.00	2.55	2.30	10.87	0.89	119.43	40.40
Ferguson Orange	QE-585	86	8.65	32.61	1.00	2.71	2.30	17.83	0.82	70.67	20.62
Andersen Gray	QE-647	90	9.27	33.41	1.00	2.66	2.30	15.65	0.84	75.91	23.69
Fire Red	QE-713	1115	8.61	28.20	1.00	2.66	2.30	15.65	0.84	940.48	230.12
Kwal Red	QE-734	8	8.63	27.99	0.94	2.59	2.30	12.61	0.82	7.39	1.85
Royal Blue	QE-929	166	8.87	30.13	1.00	2.71	2.30	17.83	0.82	136.41	37.71
Sturdi-Built Blue	QE-930	199	8.77	27.53	0.95	2.71	2.30	17.83	0.78	155.35	40.84
Reno Blue	QE-964	17	8.73	28.29	1.00	2.71	2.30	17.83	0.82	13.97	3.57
Gloss Black	QE-J204	45	8.48	24.13	0.97	2.71	2.30	17.83	0.80	35.87	7.83
									<b>TOTALS:</b>	<b>3,702</b>	<b>1,035</b>

Material	Product Code	Liquid Usage (gal)	Density (lb/gal)	Solids Content (% by wt)	VOC as applied (lb/gal)	VOC less water & exempts (lb/gal)	Rule Limit (lb/gal)	Reduction for rule compliance (%)	Surplus VOC as applied (lb/gal)	VOC Emissions (lb)	PM10 Emissions (lb)
<b>May-06</b>											
Andersen White	QE-119	32	9.74	37.94	0.99	2.53	2.30	10.00	0.89	28.51	10.05
Designer White	QE-147	26	9.67	36.02	0.90	2.47	2.30	7.39	0.83	21.67	7.70
Vista Green	QE-415	21	9.03	31.37	1.00	2.71	2.30	17.83	0.82	17.26	5.08
Interlake Green	QE-432	19	9.20	31.88	0.98	2.71	2.30	17.83	0.81	15.30	4.74
McCoy Green	QE-441	473	8.58	25.11	0.96	2.71	2.30	17.83	0.79	373.14	86.42
Andersen Greens	QE-464	464	8.95	30.55	1.00	2.71	2.30	17.83	0.82	381.29	107.84
AGN Standard Green	QE-466	592	8.95	30.55	1.00	2.71	2.30	17.83	0.82	486.47	137.59
Andersen Orange	QE-522	490	9.17	33.31	0.99	2.57	2.30	11.74	0.87	428.15	127.22
Interlake Orange	QE-535	16	8.96	31.45	1.00	2.63	2.30	14.35	0.86	13.70	3.83
Andersen Oranges	QE-542	307	9.18	32.55	0.53	1.78	2.30	0.00	0.53	162.71	77.97
AOR Standard Orange	QE-566	29	9.27	39.19	1.00	2.71	2.30	17.83	0.82	23.83	8.96
Andersen Yellow	QE-569	75	9.34	37.20	1.00	2.61	2.30	13.48	0.87	64.89	22.15
Pantone Yellow	QE-572	233	9.37	37.85	1.00	2.55	2.30	10.87	0.89	207.67	70.24
Andersen Summit Yellow	QE-581	62	9.25	35.83	1.00	2.68	2.30	16.52	0.83	51.76	17.47
Andersen Gray	QE-647	125	9.27	33.41	1.00	2.66	2.30	15.65	0.84	105.43	32.91
Fire Red	QE-713	19	8.61	28.20	1.00	2.66	2.30	15.65	0.84	16.03	3.92
Royal Blue	QE-929	26	8.87	30.13	1.00	2.71	2.30	17.83	0.82	21.37	5.91
Sturdi-Built Blue	QE-930	83	8.77	27.53	0.95	2.71	2.30	17.83	0.78	64.79	17.03
Reno Blue	QE-964	19	8.73	28.29	1.00	2.71	2.30	17.83	0.82	15.61	3.99
Toyota Blue	QE-9003	3	8.84	27.74	0.81	2.63	2.30	14.35	0.69	2.08	0.63
Gloss Black	QE-J204	27	8.48	24.13	0.97	2.71	2.30	17.83	0.80	21.52	4.70
V-AGN	VS-001	349	8.96	35.24	2.36	2.36	2.30	2.61	2.30	802.15	93.67
V-OR	VS-002	342	8.96	35.24	2.36	2.36	2.30	2.61	2.30	786.06	91.79
									<b>TOTALS:</b>	<b>4,083</b>	<b>932</b>
<b>June-06</b>											
Andersen Off White	QE-113	13	9.75	37.98	0.99	2.53	2.30	10.00	0.89	11.58	4.09
Lozier Almond	QE-117	37	9.57	36.34	1.00	2.62	2.30	13.91	0.86	31.85	10.94
Andersen White	QE-119	36	9.74	37.94	0.99	2.53	2.30	10.00	0.89	32.08	11.31
Andersen White	QE-135	29	9.87	38.79	0.50	1.78	2.30	0.00	0.50	14.50	9.44
Andersen White	QE-138	20	9.87	38.79	0.50	1.78	2.30	0.00	0.50	10.00	6.51
Interlake Green	QE-432	82	9.20	31.88	0.98	2.71	2.30	17.83	0.81	66.03	20.44
Andersen Green	QE-442	16	8.92	29.85	0.50	1.88	2.30	0.00	0.50	8.00	3.62
Andersen Green	QE-443	3	8.92	29.85	0.50	1.88	2.30	0.00	0.50	1.50	0.68
AGN Std Green	QE-464	1169	8.95	30.55	1.00	2.71	2.30	17.83	0.82	980.61	271.69
Andersen Off Green	QE-468	7	9.64	36.05	0.89	2.43	2.30	5.65	0.84	5.88	2.07
Andersen Orange	QE-522	367	9.17	33.31	0.99	2.57	2.30	11.74	0.87	320.68	95.29
Interlake Orange	QE-535	101	8.96	31.45	1.00	2.63	2.30	14.35	0.86	86.51	24.19
And. Orange & Yellows	QE-542	692	9.18	32.55	0.53	1.78	2.30	0.00	0.53	366.76	175.76
And. Orange & Yellows	QE-544	115	9.18	32.55	0.53	1.78	2.30	0.00	0.53	60.95	29.21
And. Orange & Yellows	QE-545	79	9.18	32.55	0.53	1.78	2.30	0.00	0.53	41.87	20.07
And. Orange & Yellows	QE-552	438	9.18	32.55	0.53	1.78	2.30	0.00	0.53	232.14	111.25
AOR Standard Orange	QE-566	25	9.27	39.19	1.00	2.71	2.30	17.83	0.82	20.54	7.72
Andersen Yellow	QE-569	66	9.34	37.20	1.00	2.61	2.30	13.48	0.87	57.10	19.49
Pantone Yellow	QE-572	40	9.37	37.85	1.00	2.55	2.30	10.87	0.89	35.65	12.06
Cool Gray	QE-617	10	10.08	43.80	1.35	2.81	2.30	22.17	1.05	10.51	3.75
Andersen Pebble Gray	QE-626	402	9.33	31.80	0.61	2.57	2.30	11.74	0.45	180.95	101.38
Andersen Gray	QE-647	13	9.27	33.41	1.00	2.66	2.30	15.65	0.84	10.97	3.42
Fire Red	QE-713	7	8.61	28.20	1.00	2.66	2.30	15.65	0.84	5.90	1.44
Andersen Reds	QE-733	2	8.67	29.45	0.98	2.57	2.30	11.74	0.86	1.73	0.43
Kwal Red	QE-734	55	8.63	27.99	0.94	2.59	2.30	12.61	0.82	45.18	11.29
Andersen Tans	QE-862	55	9.07	30.09	0.51	1.73	2.30	0.00	0.51	28.05	12.76
Andersen Tans	QE-863	60	9.07	30.09	0.51	1.73	2.30	0.00	0.51	30.60	13.92
Andersen Blues	QE-915	15	8.87	30.13	1.00	2.71	2.30	17.83	0.82	12.33	3.41
Royal Blue	QE-929	20	8.87	30.13	1.00	2.71	2.30	17.83	0.82	16.43	4.54
Sturdi-Built Blue	QE-930	46	8.77	27.53	0.95	2.71	2.30	17.83	0.78	35.91	9.44
Sturdi-Built Blue	QE-964	159	8.78	27.68	0.51	1.73	2.30	0.00	0.51	81.09	32.85
Reno Blue	QE-984	110	8.73	28.29	1.00	2.71	2.30	17.83	0.82	90.39	23.09
Gloss Black	QE-J204	12	8.48	24.13	0.97	2.71	2.30	17.83	0.80	9.57	2.09
V-AGN	VS-001	246	8.96	35.24	2.36	2.36	2.30	2.61	2.30	565.41	66.02
V-OR	VS-002	152	8.96	35.24	2.36	2.36	2.30	2.61	2.30	349.36	40.79
									<b>TOTALS:</b>	<b>3,763</b>	<b>1,140</b>
									<b>QTR-8</b>	<b>11,548</b>	<b>3,107</b>

**Appendix III**  
**Permit to Operate for N-2368-1-3**

San Joaquin Valley  
Air Pollution Control District

COPY

PERMIT UNIT: N-2368-1-3

EXPIRATION DATE: 07/31/2007

**EQUIPMENT DESCRIPTION:**

CONVEYORIZED METAL PARTS & PRODUCTS COATING OPERATION CONSISTING OF ONE (1) 1.56 MMBTU/HR NATURAL GAS FIRED PRE-HEAT OVEN, ONE (1) EXEMPT 0.78 MMBTU/HR NATURAL GAS FIRED PRE-WASH OVEN, ONE (1) EXEMPT 0.78 MMBTU/HR NATURAL GAS FIRED CURING OVEN, AND TWO (2) JBI MODEL CIDB-2010-S SPRAY BOOTHS

**PERMIT UNIT REQUIREMENTS**

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. All painting shall be conducted in booth with filters in place, fan(s) operating, and doors closed. [District 2201 Rule]
4. The coating operation shall comply with Rule 4603 (Surface Coating of Metal Parts and Products). [District Rule 4603]
5. All fresh or spent coatings, adhesives, catalysts, thinners and solvents shall be stored in closed containers. Solvent laden cloth or paper shall be stored and disposed in closed non-absorbent containers. [District Rule 4603]
6. Until 11/14/02, VOC content of solvents used for clean-up and surface preparation, excluding cleaning of coating application equipment, shall not exceed 200 g/l (1.67 lb/gallon). [District Rule 4603]
7. Until 11/14/02, no materials containing VOC shall be used for spray equipment clean-up unless an enclosed system or equipment proven to be equally effective is used for cleaning. [District Rule 4603]
8. Only HVLP, electrostatic, electrodeposition, flow, roll, dip, brush or continuous coating application equipment shall be used, and the application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rule 4603]
9. Permittee shall demonstrate that HVLP guns manufactured prior to 1/1/96 operate between 0.1 and 10 psig air atomizing pressure, by manufacturer's published technical material or by use of a certified air pressure tip gauge. [District Rule 4603]
10. VOC content of any coatings as applied, excluding water and exempt compounds, used for any metal parts or product shall not exceed any of the following limits: baked coating 275 g/l (2.3 lb/gal), air-dried coating: 340 g/l (2.8 lb/gal), air-dried dip coating of steel joists with coating viscosity, as applied, of more than 45.6 centistokes at 78 °F or an average dry-film thickness of greater than 2.0 millimeters: 340 g/l (2.8 lb/gal), air-dried dip coating of steel joists with coating viscosity, as applied, of less than or equal to 45.6 centistokes at 78 °F or an average dry-film thickness of less than or equal to 2.0 millimeters: 400 g/l (3.32 lb/gal). [District Rule 4603]
11. VOC content of baked specialty coatings as applied, excluding water and exempt compounds, used for metal parts or product shall not exceed any of the following limits: camouflage 360 g/l (3.0 lb/gal), extreme performance: 420 g/l (3.5 lb/gal), heat resistant: 360 g/l (3.0 lb/gal), high gloss: 360 g/l (3.0 lb/gal), high performance architectural: 420 g/l (3.5 lb/gal), high temperature: 420 g/l (3.5 lb/gal), metallic topcoat: 360 g/l (3.0 lb/gal), pretreatment wash primer: 420 g/l (3.5 lb/gal), silicone release: 420 g/l (3.5 lb/gal), solar absorbant: 360 g/l (3.0 lb/gal), and solid film lubricant: 880 g/l (7.3 lb/gal). [District Rule 4603]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: ANDERSEN RACK SYSTEMS, INC  
Location: 1821 E CHARTER WAY, STOCKTON, CA 95205  
N-2368-1-3 JUL 25 2002 8:03AM - CHANK

12. VOC content of air-dried specialty coatings as applied, excluding water and exempt compounds, used for metal parts or product shall not exceed any of the following limits: camouflage 420 g/l (3.5 lb/gal), extreme performance: 420 g/l (3.5 lb/gal), heat resistant: 420 g/l (3.5 lb/gal), high gloss: 420 g/l (3.5 lb/gal), high performance architectural: 420 g/l (3.5 lb/gal), high temperature: 420 g/l (3.5 lb/gal), metallic topcoat: 420 g/l (3.5 lb/gal), pretreatment wash primer: 420 g/l (3.5 lb/gal), silicone release: 420 g/l (3.5 lb/gal), solar absorbant: 420 g/l (3.5 lb/gal), and solid film lubricant: 880 g/l (7.3 lb/gal). [District Rule 4603]
13. Effective 11/15/02, cleaning activities that use solvents with a VOC content greater than 50 g/l (0.42 lb/gallon) shall be performed by one or more of the following methods: wipe cleaning; application of solvent from hand-held spray bottles from which solvents are dispensed without a propellant-induced force; non-atomized solvent flow method in which the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container; or solvent flushing method in which the cleaning solvent is discharged into a container that is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping. [District Rule 4603]
14. Effective 11/15/02, the permittee shall not use materials with a VOC content greater than 50 g/l (0.42 lb/gallon) for spray equipment clean-up unless an enclosed system or equipment proven to be equally effective is used for cleaning. [District Rule 4603]
15. Effective 11/15/02 through 11/14/03, VOC content of solvents used shall not exceed any of the following limits: product cleaning during manufacturing process or surface preparation for coating application: 70 g/l (0.58 lb/gal), repair and maintenance cleaning (except, until June 30, 2005, cleaning of ultraviolet lamps used for the curing of ultraviolet coatings): 50 g/l (0.42 lb/gal), and cleaning of coating application equipment: 950 g/l (7.9 lb/gal) and solvent vapor pressure of 35 mm Hg at standard conditions. [District Rule 4603]
16. Effective 11/15/03, VOC content of solvents used shall not exceed any of the following limits: product cleaning during manufacturing process or surface preparation for coating application: 50 g/l (0.42 lb/gal), repair and maintenance cleaning (except, until June 30, 2005, cleaning of ultraviolet lamps used for the curing of ultraviolet coatings): 50 g/l (0.42 lb/gal), and cleaning of coating application equipment: 550 g/l (4.6 lb/gal). [District Rule 4603]
17. The VOC emissions due to the usage of coatings and solvents shall not exceed 174 pounds during any one day. [District Rule 2201]
18. The PM10 emissions due to the usage of coatings and solvents shall not exceed 3.7 pounds during any one day. [District Rule 2201]
19. The VOC emissions due to the usage of coatings and solvents shall not exceed 32,600 pounds during any one calendar year. [District Rule 2201]
20. The NOx emissions concentration due to the combustion of natural gas shall not exceed 0.1 lbs./MMBtu. [District Rule 2201]
21. The CO emissions concentration due to the combustion of natural gas shall not exceed 0.084 lbs./MMBtu. [District Rule 2201]
22. The VOC emissions concentration due to the combustion of natural gas shall not exceed 0.0055 lbs./MMBtu. [District Rule 2201]
23. The SOx emissions concentration due to the combustion of natural gas shall not exceed 0.00214 lbs./MMBtu. [District Rule 2201]
24. The PM10 emissions concentration due to combustion of natural gas shall not exceed 0.0076 lbs./MMBtu. [District Rule 2201]
25. Records shall be kept in accordance with Rule 4603 (Surface Coating of Metal Parts and Products). [District Rule 4603]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.



26. Permittee shall maintain daily records of the following: quantity and type of coatings used, mix ratios of volume of components added to each coating, volume of coatings applied, VOC content of each coating as applied, and VOC content of each solvent. [District Rule 4603]
27. Effective 11/15/02 permittee shall keep the following records for solvent cleaning activities: manufacturers product data sheet or MSDS of solvents used, VOC content of solvents in g/l or lb/gal, and the type of cleaning activity for which each solvent is used. [District Rule 4603]
28. Maintain a daily record of the total quantity of VOC emitted in pounds from the use of coatings and solvents. [District Rule 2201 & 4603]
29. Maintain a record of the cumulative annual VOC emissions from the use of coatings and solvents in pounds. [District Rule 2201 & 1070]
30. Records shall be retained on-site for a minimum of five years and made available for District inspection upon request. [District Rule 4603]

These terms and conditions are part of the Facility-wide Permit to Operate.

**Appendix IV**  
**Draft ERC Certificates**

San Joaquin Valley  
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

**Emission Reduction Credit Certificate**  
**N1062909-68-1**

**ISSUED TO:** ANDERSEN RACK SYSTEMS, INC  
**ISSUED DATE:** <DRAFT>  
**LOCATION OF REDUCTION:** 1821 E CHARTER WAY  
A SUBSIDIARY OF HANNIBAL INDUSTRIES  
STOCKTON, CA 95205

**For VOC Reduction In The Amount Of:**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
7,335 lbs	7,335 lbs	7,335 lbs	7,335 lbs

Conditions Attached

**Method Of Reduction**

- Shutdown of Entire Stationary Source  
 Shutdown of Emissions Units  
 Other

**Emissions reduction credits for the shutdown of the entire Anderson Rack Systems facility**

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Saadeghi, Executive Director / APCD

David Warner, Director of Permit Services

San Joaquin Valley  
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

**Emission Reduction Credit Certificate**  
**N1062909-68-4**

**ISSUED TO:** ANDERSEN RACK SYSTEMS, INC  
**ISSUED DATE:** <DRAFT>  
**LOCATION OF REDUCTION:** 1821 E CHARTER WAY  
A SUBSIDIARY OF HANNIBAL INDUSTRIES  
STOCKTON, CA 95205

**For PM10 Reduction In The Amount Of:**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
300 lbs	303 lbs	306 lbs	306 lbs

Conditions Attached

**Method Of Reduction**

- Shutdown of Entire Stationary Source  
 Shutdown of Emissions Units  
 Other

Emissions reduction credits for the shutdown of the entire Anderson Rack Systems facility

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Saadeghi, Executive Director / APCD

**DRAFT**  
\_\_\_\_\_  
David Warner, Director of Permit Services