

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING DIVISION

APPLICATION PROCESSING AND CALCULATIONS

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Equipment Location

Krystal Koach Inc.
2701 E. Imperial Hwy.
Brea, California 92821
ID# 108620

**TITLE V
FACILITY WIDE CONDITION(S)**

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]

2. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 68 POUNDS IN ANY ONE DAY. AFTER THE SPRAY BOOTH UNDER APPLICATION NO. 471430 HAS BEEN INSTALLED AND OPERATED AT THIS FACILITY, THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 2,890 POUNDS IN ANY ONE CALENDAR MONTH. [RULE 1303 (b)(2)-OFFSET]

3. TO ENSURE COMPLIANCE WITH THE EMISSION LIMIT OF CONDITION NO. 2, THE OPERATOR SHALL:
 - A. COMPLY WITH RULE 109 (RECORDKEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).
 - B. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH CALENDAR MONTH, TOTAL AND RECORD VOC EMISSIONS FOR THE CALENDAR MONTH FROM ALL EQUIPMENT AND OPERATIONS THAT ARE REQUIRED TO HAVE WRITTEN PERMITS OR ARE EXEMPT FROM WRITTEN PERMITS PURSUANT TO RULE 219. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCIES AND/OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.
 - C. MAINTAIN A SINGLE LIST WHICH INCLUDES ONLY THE NAME AND ADDRESS OF EACH PERSON FROM WHOM THE FACILITY ACQUIRED VOC-CONTAINING MATERIAL REGULATED BY THE DISTRICT THAT WAS USED OR STORED AT THE FACILITY DURING THE PRECEDING 12 MONTHS.

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D. RETAIN ALL PURCHASE INVOICES FOR ALL VOC-CONTAINING MATERIAL USED OR STORED AT THE FACILITY, AND ALL WASTE MANIFESTS FOR ALL WASTE VOC-CONTAINING MATERIAL REMOVED FROM THE FACILITY.

[RULE 109, RULE 1303 (a)(1)-BACT]

4. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, RETAINED AT THE FACILITY FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.

[RULE 109, RULE 1303 (a)(1)-BACT]

5. MATERIAL SAFETY DATA SHEETS FOR ALL MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 109, RULE 1303 (a)(1)-BACT]

Equipment Subject To a Combined 850 pounds VOC per month.

**PERMIT TO CONSTRUCT
Relocation**

Application No. 471430 (Previous P/O F90060, A/N 467165)

SPRAY BOOTH, ALERT BLOWER, FLOOR TYPE, 4'-0" W. X 4'-4" L. X 8'-2" H., WITH SIX 20" X 24" EXHAUST FILTERS AND ONE 1-HP EXHAUST FAN.

**PERMIT TO OPERATE
P/O no P/C**

Application No. 471422

SPRAY BOOTH, CUSTOM, FLOOR TYPE, 5'-5" W. X 10'-0" L. X 11'-0" H., WITH EIGHT 20" X 20" EXHAUST FILTERS AND ONE 7.5-HP EXHAUST FAN.

**PERMIT TO OPERATE
Change of Condition (to bubble in 850 lbs/month)**

Application No. 471416 (Previous P/O F054626, a/n 405161)

SPRAY BOOTH 11-C, BLOWTHERM, AUTOMOTIVE TYPE, MODEL NO. DSD46-51816-FD, 18'-0" W. X 1844'-06" L. X 4418'-60" H., WITH ONE 3'-2.5" W. X 36'-2" L. EXHAUST FILTER, TWO 5- \emptyset H.P. EXHAUST FANS, AND A 3,000,000 BTU HEATER.

Remove:

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6. ~~THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS EMITTED TO THE ATMOSPHERE FROM THE EQUIPMENT UNDER A/N 402100, 405160, AND 405161 SHALL NOT EXCEED 850 POUNDS IN ANY ONE CALENDAR MONTH.~~
~~[RULE 1303 (b)(2)-OFFSET]~~

Application No. 471417 (Previous P/O F03335, a/n 315068)

SPRAY BOOTH 12-C, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 1048099725-EI, 137'-26" W. X 369'-04" L. X 916'-0" H., WITH ONE 46" X 432" EXHAUST FILTER, TWO 1,000,000 BTU PER HOUR NATURAL GAS FIRED HEATER, ~~THREE 24" X 30" EXHAUST FILTERS~~ TWO 15 HP INLET BLOWERS AND ~~FOUR~~TWO 15 HP EXHAUST FANS BLOWERS.

Remove:

5. ~~THE TOTAL AMOUNT OF VOC EMISSIONS EMITTED TO THE ATMOSPHERE FROM THIS EQUIPMENT SHALL NOT EXCEED 18 POUNDS IN ANY ONE DAY AND 360 POUNDS IN ANY ONE CALENDAR MONTH.~~
~~RULE 1303 (b)(2)-OFFSET~~

Application No. 471418 (Previous P/O F08142, a/n 329616)

SPRAY BOOTH 13-C, GARMAT, AUTOMOTIVE, TYPE, MODEL 9987250, 17'-6" W. X 4039'-04" D. X 196'-30" H., WITH ONE 46" X 432" EXHAUST FILTER, TWO 1,000,000 BTU PER HOUR GAS FIRED HEATERS, ~~TWO 4'-0" W X 30'-0" L EXHAUST FILTERS~~ TWO 15 HP INLET BLOWERS AND ~~TWO~~ 15 HP EXHAUST FANS BLOWERS.

Application No. 471419 (Previous P/O F022055, a/n 341372)

SPRAY BOOTH 14-C, GARMAT, AUTOMOTIVE, TYPE, MODEL NO. 9987250, 167'-06" W. X 624'-05" L. X 16'-0" H., WITH ONE 48" X 552" ~~FOUR 2'-0" W. X 24'-0" L.~~ EXHAUST FILTERS, ~~FOUR 15 HP EXHAUST FANS~~, AND TWO 1,500,000 BTU PER HOUR NATURAL GAS FIRED HEATERS, TWO 15 HP INLET BLOWERS AND TWO 15 HP EXHAUST BLOWERS.

Remove:

5. ~~THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 22 POUNDS IN ANY ONE DAY.~~
~~[1303(b)(2)-OFFSET]~~

Application No. 471420 (Previous P/O F03324, a/n 315059)

SPRAY BOOTH 15-W, SPRAYMEX, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 153394, 15'-0" W. X 33'-0" L. X 9'-4" H., WITH TWENTY 20"x 20" EXHAUST FILTERS AND A 3 H.P. EXHAUST FAN.

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Remove:

5. ~~THE TOTAL AMOUNT OF VOC EMISSIONS EMITTED TO THE ATMOSPHERE FROM THIS EQUIPMENT SHALL NOT EXCEED 18 POUNDS IN ANY ONE DAY AND 360 POUNDS IN ANY ONE CALENDAR MONTH.~~
~~[RULE 1303 (b)(2)-OFFSET]~~

Add:

1. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE SPRAY BOOTHS UNDER APPLICATION NUMBER 471416, 471417, 471418, 471419, 471420, 471422 & 471430 SHALL NOT EXCEED 850 POUNDS IN ANY ONE CALENDAR MONTH.
[RULE 109, RULE 1303 (b)(2)-OFFSET]
2. TO ENSURE COMPLIANCE WITH THE EMISSION LIMIT OF CONDITION NO. 1, THE OPERATOR SHALL:
- A. COMPLY WITH RULE 109 (RECORDKEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).
- B. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH CALENDAR MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE CALENDAR MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THIS EMISSION LIMIT. THE RECORDS SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCIES AND/OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.
- C. MAINTAIN A SINGLE LIST WHICH INCLUDES ONLY THE NAME AND ADDRESS OF EACH PERSON FROM WHOM THE FACILITY ACQUIRED VOC-CONTAINING MATERIAL REGULATED BY THE DISTRICT THAT WAS USED OR STORED AT THE FACILITY DURING THE PRECEDING 12 MONTHS.
- D. RETAIN ALL PURCHASE INVOICES FOR ALL VOC-CONTAINING MATERIAL USED OR STORED AT THE FACILITY, AND ALL WASTE MANIFESTS FOR ALL WASTE VOC-CONTAINING MATERIAL REMOVED FROM THE FACILITY.
[RULE 109, RULE 1303 (b)(2)-OFFSET]
3. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, RETAINED AT THE FACILITY FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO ANY

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DISTRICT REPRESENTATIVE UPON REQUEST
[RULE 109, RULE 1303(b)(2)-OFFSET]

4. THE TOTAL QUANTITY OF FORMALDEHYDE USED IN THIS EQUIPMENT SHALL NOT EXCEED 45 POUNDS IN ANY ONE CALENDAR YEAR. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO VERIFY THE MONTHLY AND YEARLY FORMALDEHYDE EMISSIONS IN POUNDS AND THE FORMALDEHYDE CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). (FOR A/N 471416, 471417, 471418, 471419, 471420, 471422 & 471430)
[RULE 109, RULE 1303(b)(2)-OFFSET]

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANT IDENTIFIED IN DISTRICT RULE 1401 TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 4, 2005 OR EARLIER EXCEPT TOLUENE (CAS# 108-88-3), METHYL ETHYL KETONE (CAS# 78-93-3), XYLENE (CAS# 1330-20-7), ETHYL BENZENE (CAS# 100-41-4), ISOPROPYL ALCOHOL (CAS# 67-63-0), FORMALDEHYDE (CAS# 50-00-0), STYRENE (CAS# 100-42-5), ETHYLENE GLYCOL MONOBUTYL ETHER (CAS# 111-76-2), PROPYLENE GLYCOL MONOMETHYL ETHER (CAS# 107-98-2), METHANOL (CAS# 67-56-1) AND PHOSPHORIC ACID (CAS# 7664-38-2).
[RULE 1401]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 109

VOC: RULE 1136, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1145, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1151, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1168, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 481

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Equipment Subject To a Combined 68 pounds VOC per day.

PERMIT TO OPERATE
Change of Condition

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Application No. 471428 (Previous P/O F03344, a/n 315073)

SPRAY BOOTH 1-A, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 1046580-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, TWO 24" X 30" EXHAUST FILTERS ONE 10 HP INLET BLOWER AND TWO ONE 10 HP EXHAUST FANSBLOWER.

Application No. 471406 (Previous P/O F03334, a/n 315070)

SPRAY BOOTH 2-A, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 10480-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, TWO ONE 1,000,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 10 HP INLET BLOWER AND TWO ONE 10 HP EXHAUST FANSBLOWER.

Application No. 471407 (Previous P/O F03337, a/n 315069)

SPRAY BOOTH 3-A, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 10480-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, TWO ONE 1,000,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 10 HP INLET AIR BLOWER AND TWO ONE 10 HP EXHAUST FANSBLOWER.

Application No. 471408 (Previous P/O F03329, a/n 315060)

SPRAY BOOTH 4-A, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 99770-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, A 1,050,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 15 HP INLET BLOWER, AND ONE A 15 HP EXHAUST FANBLOWER.

Application No. 471409 (Previous P/O F3344, a/n 315066)

SPRAY BOOTH 5-A, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 99770-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTERS, ONE TWO 1,050,000 BTU PER HOUR NATURAL GAS FIRED HEATER, THREE 24" X 30" EXHAUST FILTERS AND FOUR ONE INLET 15 HP EXHAUST FANSBLOWER AND ONE 15 HP EXHAUST BLOWER.

Application No. 471410 (Previous P/O F03343, a/n 315072)

SPRAY BOOTH 6-B, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 1046580-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH TWO ONE 24 36" X 30 312" EXHAUST FILTERS ONE 10 HP INLET BLOWER AND TWO ONE 10 HP EXHAUST FANSBLOWER.

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Application No. 471411 (Previous P/O F03342, a/n 315071)

SPRAY BOOTH 7-B, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 10480-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, TWO ONE 1,000,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 10 HP INLET BLOWER, AND TWO ONE 10 HP EXHAUST FANBLOWER.

Application No. 471412 (Previous P/O F03333, a/n 315065)

SPRAY BOOTH 8-B, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 9977010480-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, AONE 1,000,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 10 HP INLET BLOWER AND AONE 150 HP EXHAUST FANBLOWER.

Application No. 471413 (Previous P/O F03345, a/n 315061)

SPRAY BOOTH 9-B, GARMAT, AUTOMOTIVE, DOWNDRAFT TYPE, MODEL NO. 99770-EI, 13'-26" W. X 36'-0" L. X 9'-0" H., WITH ONE 36" X 312" EXHAUST FILTER, AONE 1,050,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 15 HP INLET BLOWER AND AONE 15 HP EXHAUST FANBLOWER.

Application No. 471414 (Previous P/O F54628, a/n 405160)

SPRAY BOOTH 10-B, GARMAT, AUTOMOTIVE TYPE, MODEL NO. 99770-EL, 13'-26" W X 36'-0" L X 9'-0" H, WITH ONE 36" X 312" EXHAUST FILTER, AONE 1,050,000 BTU PER HOUR NATURAL GAS FIRED HEATER, TWO 24" X 30" EXHAUST FILTERS ONE 15 HP INLET BLOWER, AND ONE 15-0-H.P. EXHAUST FANBLOWER.

Application No. 471421 (Previous P/O F54625, a/n 402100)

SPRAY BOOTH 16-A&B, SPRAYLINE, AUTOMOTIVE TYPE, CUSTOM, 39'-4"W X 66'-0"L X 10'-0"H, WITH 160 20" X 20" EXHAUST FILTERS AND ONETHREE 5.0-HP EXHAUST FAN.

Open Spray Systems

Application No. 471426 (Previous P/O F25562, a/n 361751)

OPEN SPRAY SYSTEM NO. 1 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

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Application No. 471427 (Previous P/O F25563, a/n 361752)

OPEN SPRAY SYSTEM NO. 2 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. TWO (2) HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUNS

Application No. 471423 (Previous P/O F25564, a/n 361753)

OPEN SPRAY SYSTEM NO. OS-13 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 5.0 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471425 (Previous P/O F25565, a/n 361754)

OPEN SPRAY SYSTEM NO. OS-24 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 5.0 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471977 (Previous P/O F25566, a/n 361757)

OPEN SPRAY SYSTEM NO. OS-35 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471978 (Previous P/O F25567, a/n 361759)

OPEN SPRAY SYSTEM NO. OS-46 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471979 (Previous P/O F25568, a/n 361760)

OPEN SPRAY SYSTEM NO. OS-57 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL

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2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471980 (Previous P/O F25569, a/n 361761)

OPEN SPRAY SYSTEM NO. OS-68 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471981 (Previous P/O F25570, a/n 361762)

OPEN SPRAY SYSTEM NO. OS-79 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471982 (Previous P/O F25575, a/n 361764)

OPEN SPRAY SYSTEM NO. OS-840 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Application No. 471983 (Previous P/O F25576, a/n 361765)

OPEN SPRAY SYSTEM NO. OS-944 CONSISTING OF:

1. PRESSURE POT, DEVILBISS QMS, 2.5 GAL
2. HIGH VOLUME LOW PRESSURE (HVLP) SPRAY GUN

Add:

1. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE SPRAY BOOTHS AND OPEN SPRAY SYSTEMS UNDER APPLICATION NOS. 471406, 471407, 471408, 471409, 471410, 471411, 471412, 471413, 471414, 471421, 471423, 471425, 471426, 471427, 471428, 471977, 471978, 471979, 471980, 471981, 471982, & 471983 SHALL NOT EXCEED 68 POUNDS IN ANY ONE DAY.
2. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR ALL EQUIPMENT AND OPERATIONS COVERED BY THE EMISSION LIMIT TO VERIFY THE DAILY VOC EMISSIONS IN POUNDS AND THE VOC CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS).

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Background

Krystal Koach is in the business of converting luxury cars, trucks and minibuses into limousines and high end transportation vehicles. They will operate up to 18 spray booths and 11 open spray systems through out the facility.

Krystal Koach submitted one application to relocate one spray booth, one application to permit an existing spray booth, and 27 applications to change the permit condition for their existing spray booth and open spray systems to reflect the additional VOC emissions from the relocating booth. Under these applications, the applicant has also requested to update the equipment descriptions and designated numbers in the permits to reflect the actual equipment at the facility. The spray booth to be installed under application no. 471430 (P/O F90060) is relocated from the Krystal Koach facility at 3000 E. Imperial Hwy in Lynwood (ID# 151283), to the existing Title V facility at 2701 E. Imperial Hwy in Brea (ID# 108620). The relocation will bring a total of 850 pound VOC per month to the Brea facility. Six of the existing spray booths at the Brea facility will also be operated under the 850 lbs/month limit. The increased VOC emissions will be added to the existing Facility Cap of 68 lbs VOC per day (2040lbs/month) for a total of 2,890 lbs per month. However, the VOC emission limit of 68 lbs/day for the 11 existing spray booths & 11 existing open spray systems at their Brea facility will remain the same.

Krystal Koach's has received the following complaint, NC & NOV's:

- Complaint about Company using mislabeled adhesive.
- Notice to Comply C83528 issued 2/7/06 to redo a 2202 survey
- NC D04652 issued 9/05/06 to provide a mass balance for adhesive usage
- NC D04655 issued 11/16/2006 to provide purchase invoices for adhesives
- Notice of Violation P48172 for failure to keep adequate records on adhesive usage

The last inspection was conducted by our compliance staff on 6/22/07 and found the facility in compliance with all applicable District Rules and Regulations. There are no other Complaints, Notices to Comply or Notices of Violation on record as of 9/22/07.

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The following table is a summary of the applications submitted by Krystal Koach:

New A/N	Previous P/O	Previous A/N	Equipment Description	Appl. Type	Individual Equipment Limit	Equipment Group Limit
47xxxx	Title V Permit Revision Application					
471406	F03334	315066	Spray Booth	C/C*	18 #/d & 36 #/m	68 lbs/day
471407	F03337	315069	Spray Booth	C/C	18 #/d & 36 #/m	
471408	F03329	315060	Spray Booth	C/C	18 #/d & 36 #/m	
471409	F03344	315073	Spray Booth	C/C	18 #/d & 36 #/m	
471410	F03343	315072	Spray Booth	C/C	18 #/d & 36 #/m	
471411	F03333	315065	Spray Booth	C/C	18 #/d & 36 #/m	
471412	F03342	315071	Spray Booth	C/C	18 #/d & 36 #/m	
471413	F03345	315061	Spray Booth	C/C	18 #/d & 36 #/m	
471414	F54628	405160	Spray Booth	C/C	850 lbs/month	
471421	F54625	402100	Spray Booth	C/C		
471428	F03340	315070	Spray Booth	C/C	18 #/d & 36 #/m	
471423	F25564	361753	Open Spray	C/C	30 gals/month	
471425	F25565	361754	Open Spray	C/C	30 gals/month	
471426	F25562	361751	Open Spray	C/C	30 gals/month	
471427	F25563	361752	Open Spray	C/C	30 gals/month	
471977	F25566	361757	Open Spray	C/C	30 gals/month	
471978	F25567	361759	Open Spray	C/C	30 gals/month	
471979	F25568	361760	Open Spray	C/C	30 gals/month	
471980	F25569	361761	Open Spray	C/C	30 gals/month	
471981	F25570	361762	Open Spray	C/C	30 gals/month	
471982	F25575	361764	Open Spray	C/C	30 gals/month	
471983	F25576	361765	Open Spray	C/C	30 gals/month	
471430	F90060	467165	Spray Booth	Relocation	NA	850 lbs/month
471422	NA	NA	Spray Booth	PO no PC	NA	
471416	F54626	405161	Spray Booth	C/C	NA	
471417	F03335	315068	Spray Booth	C/C	NA	
471418	F08142	329616	Spray Booth	C/C	NA	
471419	F22055	341372	Spray Booth	C/C	NA	
471420	F03324	315059	Spray Booth	C/C	NA	

* Change of Condition

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Emissions for NSR Entries (ROG and PM/PM10)

Application Number	Previous P/O, application	Equipment	Previous NSR	Previous AEIS Entry ROG lbs/hr	PM R1/R2
471406	F3334, 315066	spray booth		2.8	0
471407	F3337, 315069	spray booth		2.8	0
471408	F3329, 315060	spray booth	ROG 25 lbs/day*	2.9	0
471409	F3344, 315073	spray booth		2.8	0
471410	F3343, 315072	spray booth		2.8	0
471411	F3333, 315065	spray booth		2.8	0
471412	F3342, 315071	spray booth		2.8	0
471413	F3345, 315061	spray booth	ROG 30 lbs/day*	2.9	0
471414	F54628, 405160	spray booth	ROG 13 lbs/day*	1.2	0.71/0.04
471421	F54625, 402100	spray booth		1.2	0.71/0.04
471428	F3340, 315070	spray booth		2.8	0
471423	F25564, 361753	open spray		0.1	0.15/0.15
471425	F25565, 361754	open spray		0.1	0.15/0.15
471426	F25562, 361751	open spray		0.1	0.15/0.15
471427	F25563, 361752	open spray		0.1	0.15/0.15
471977	F25566, 361757	open spray		0.1	0.15/0.15
471978	F25567, 361759	open spray		0.1	0.15/0.15
471979	F25568, 361760	open spray		0.1	0.15/0.15
471980	F25569, 361761	open spray		0.1	0.15/0.15
471981	F25570, 361762	open spray		0.1	0.15/0.15
471982	F25575, 361764	open spray		0.1	0.15/0.15
471983	F25576, 361765	open spray		0.1	0.15/0.15
471430	F90060, 467165	spray booth	ROG 37 lbs/day**	2.3	0
471422	none	spray booth		na	na
471416	F54626, 405161	spray booth		1.2	0.71/0.04
471417	F3335, 315068	spray booth		2.8	0
471418	F8142, 329616	spray booth(combustion)		1.9 nox 0.25	0.53/0.05 CO 0.07
471419	F22055, 341372	spray booth		2.4	0.79
471420	F3324, 315059	spray booth		5.5	0

* Same VOC emissions will be used for the NSR entry under new application numbers

** Since this equipment will be subject to a VOC cap of 850 lbs/month, 28 lbs/day of VOC will be used as the NSR entry for this equipment under application 471430.

Application No. 471430 (Previous F90060, a/n 467165)

Relocating 850 lbs VOC/month (28 lbs/day, which will be used for the new NSR entry)

The NSR ledger will incorporate these emissions under this application.

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Seven (7) spray booths will be capped under this 850 lbs/month

A/N 471430, 471422, 471416, 471417, 471418, 471419 & 471420

AEIS:

$$850 \text{ lbs/month} / (30 \text{ day/month}) / (8 \text{ hrs/day}) / (7) = 0.51 \text{ lbs/hr}$$

The PM₁₀ emissions per equipment is estimated to be:

$$(28.3 \text{ lbs VOC/day}) / (3.5 \text{ lbs VOC/gal}) = 8.09 \text{ gal/day}$$

$$(8.09 \text{ Gal}) (4.5 \text{ lbs PM/gal}) = 36.39 \text{ lbs PM/day}$$

$$(36.39 \text{ lbs PM/day}) (0.35) (1-0.90) = 1.27 \text{ lbs/day}$$

$$(1.27 \text{ lbs/day}) (0.50) / (8 \text{ hr/day}) = 0.0795 \text{ lbs/hr PM}_{10}$$

Emissions for NSR Entries (ROG and PM/PM₁₀)

After the proposed relocation, Krystal Koach will be operating a total of 18 spray booths at their Brea facility. Twelve of these 18 spray booths are equipped with natural gas-fired heaters. Krystal Koach has also requested that the descriptions of all 18 spray booths are updated to reflect the actual equipment at the facility. A review of the NSR history shows that the emissions from natural gas combustion for the 12 spray booths with heaters were not entered in the NSR database. As a result, the natural gas combustion emissions from these 12 spray booths with heaters are recalculated and will be entered in the NSR database for both previous and new emissions.

The equipment descriptions, burner rating changes, and associated natural gas combustion emissions for the 12 spray booths with heaters are summarized as follow:

New A/N	Prev. A/N	Burner Rating (10 ⁶ Btu/hr)			Emissions* lbs/hr (lbs/day for NSR Entries)				
		Permit	Actual*	Δ	VOC	NOx	SOx	CO	PM ₁₀
471406	315070	2.0	1.0	- 1.0	0.01 (0)	0.10 (2)	0.0 (0)	0.03 (1)	0.01 (0)
471407	315069	2.0	1.0	- 1.0	0.01 (0)	0.10 (2)	0.0 (0)	0.03 (1)	0.01 (0)
471408	315060	1.0	1.5	+ 0.5	0.01 (0)	0.14 (3)	0.0 (0)	0.05 (1)	0.01 (0)
471409	315066	1.0	1.5	+ 0.5	0.01 (0)	0.14 (3)	0.0 (0)	0.05 (1)	0.01 (0)
471411	315071	2.0	1.0	- 1.0	0.01 (0)	0.10 (2)	0.0 (0)	0.03 (1)	0.01 (0)
471412	315065	1.0	1.0	0	0.01 (0)	0.10 (2)	0.0 (0)	0.03 (1)	0.01 (0)
471413	315061	1.0	1.5	+ 0.5	0.01 (0)	0.14 (3)	0.0 (0)	0.05 (1)	0.01 (0)
471414	405160	1.0	1.5	+ 0.5	0.01 (0)	0.14 (3)	0.0 (0)	0.05 (1)	0.01 (0)
471416	405161	3.0	3.0	0	0.02 (1)	0.29 (7)	0.0 (0)	0.10 (2)	0.02 (1)
471417	315068	2.0	2.0	0	0.01 (0)	0.19 (5)	0.0 (0)	0.07 (2)	0.01 (0)
471418	329616	2.0	2.0	0	0.01 (0)	0.19 (5)	0.0 (0)	0.07 (2)	0.01 (0)
471419	341372	3.0	3.0	0	0.02 (1)	0.29 (7)	0.0 (0)	0.10 (2)	0.02 (1)

* Emissions are based the actual burner ratings operating at 24 hrs/day (see attached calculation for 1 x10⁶ btu/hr).

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As indicated in the above table, the heaters for four of the 12 spray booths show a higher burner. However, I conducted a field inspection on these spray booths and the name plate on each of these four spray booths showed both an input rating of 1.5×10^6 btu/hr and an output rating of 1.0×10^6 btu/hr. As a result, the burner ratings on the current permits for these four spray booths are incorrect and the correct burner ratings will be reflected in the new permits. No increase in emissions from these four spray booths are expected. In addition, the above table shows that the proposed project will result in a net decrease of the natural gas consumption for the facility. As a result, no emission offsets will be required from the changes of burner ratings for this facility.

Risk Assessment:

Equipment subject to 68 lbs VOC per day will have no change in Risk since the equipment caps will remain the same. Equipment subject to the 850 lbs VOC per month will reflect the increase in Risk for equipment that has an increase in VOC emissions. (A/Ns 471430, 471422, 471417, 471418, 471419, 471420)

Max Emission increase 850 lbs/month (28.3 lbs/day) will be used to determine the maximum health effect. 28.3 lbs/day divided amongst 13 products assigns $28.3/13=2.18$ lbs/day VOC per product(allocated VOC).

PRODUCT	CONTAMINANT	CAS NO.	WEIGHT %	Product density	Product VOC	Gallons/product*	wt haz lbs/day
92921 Hardener	Toluene	108-88-3	10	13.33	2.6	0.84	1.12
D3 C-108 ADHESIVE	Methyl Ethyl Ketone	78-93-3	<5	6.66	0.9	2.42	0.81
NG639 Adhesive	Toluene	108-88-3	<25	7.91	1.93	1.13	2.18 ***
NLR 22Bases	Xylene	1330-20-7	<5	11.91	3.7	0.59	0.35
	Ethyl Benzene	100-41-4	<1	11.91	3.7	0.59	0.07
NLR AM900Z	Isopropanol	67-63-0	15	5.91	5.9	0.37	0.33
	Xylene	1330-20-7	<5	5.91	5.9	0.37	0.11
NLR 9VEZZZ	Formaldehyde	50-00-0	<0.1	8.33	8.33	0.26	0.02
823A Clear Sealer	Styrene	100-42-5	51.97	8.25	4.29	0.51	2.18
904-001 hi gloss Add	Styrene	100-42-5	33.01	8.50	4.10	0.53	1.49
	Methyl Ethyl Ketone	78-93-3	14.1	8.50	4.10	0.53	0.64
NLR 9E3ZZZ	Formaldehyde	50-00-0	<0.1	8.19	8.19	0.26	0.02
NLR	Ethylene Glycol	111-76-2	50	12.91	4.9	0.44	2.18

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90BASES	Monobutyl Ether						***
NLR 283155	Ethyl Benzene	100-41-4	10	9.16	4.5	0.48	0.44
	Propylene Glycol Methyl Ether	107-98-2	15	9.16	4.5	0.48	0.67
	Xylene	1330-20-7	30	9.16	4.5	0.48	1.33
NLR 352228	Isopropanol	67-63-0	65	6.74	6.5	0.34	1.49
	Methanol	67-56-1	5	6.74	6.5	0.34	0.11
	Phosphoric Acid	7664-38-2	5.0	6.74	6.5	0.34	0.11
NLR 28521Z	Formaldehyde	50-00-0	<0.1	13.9	1.3	1.68	0.23

* Gallons determined by dividing allocated VOC by product VOC

$$(2.18\text{lbs VOC/day}) / (2.6 \text{ lbs VOC/gal}) = 0.84\text{gallons Product/day}$$

**Daily mass of Hazardous contaminant determine by multiplying gallons of product by its density then by the contaminant wt%

$$0.84 \text{ gal/day}(13.33 \text{ lbs/gal})(0.1) = 1.12\text{lbs/day}$$

***If Wt hazardous contaminant calculated exceeds allocated VOC then allocated VOC is used as mass of contaminant

Operating Schedule: 8hrs/day, 6 days/week, 52 weeks/yr

Contaminant	Total weight lbs/day	Hourly
Toluene	3.30	0.413
Methyl Ethyl Ketone	1.45	0.181
Xylene	1.79	0.224
Ethyl Benzene	0.51	0.064
Isopropanol	1.82	0.228
Formaldehyde	0.121	0.0152
Styrene	3.67	0.459
Ethylene Glycol	2.18	0.273
Propylene Glycol	0.67	0.084
Methanol	0.11	0.014
Phosphoric acid	0.11	0.014

The Formaldehyde emissions will be limited to 43 lbs per year per booth to prevent an MICR of greater than one in a million. The toxic Risk assessment was performed using the Toxic Risk Module. The following are the results of the Tier 2 screening.

MICR:

Residential	Commercial
8.50E-08	9.97E-07
Pass	Pass

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A public notice is not required since the emission increase is not above the thresholds.

Rule 401: With proper operation and maintenance, compliance with this rule is expected.

Rule 402: With proper operation and maintenance, compliance with this rule is expected.

Rule 1136 The wood coating used in this operation is a clear sealer with a VOC content of 1.5 lbs/gal which complies with the required 2.3 lbs/gal.

Rule 1151: The coatings used in this operation will comply with the VOC content of 3.5lbs/gal for group II vehicles. Top coats range from 1.5 to 3.5 lbs/gal. Compliance with this rule is expected

Rule 1168: The adhesives used in this operation have a VOC content of 108 to 232 gm/lt. The general coating VOC limit is 250 grams/liter. Compliance with this rule is expected.

Rule 1171: This facility uses acetone and water as a clean-up solvent which is not considered a VOC as a result, compliance with this rule is expected.

REG XIII: New Source Review.
1303(b) States that a new permit unit must meet each of the following requirements if there is an emission increase:

- 1) BACT
BACT requirements are satisfied by complying with the Regulation XI rules since the voc emissions from the spray booths with an emission increase do not exceed 850 lbs/month.
- 2) Modeling:
The preliminary screening analysis require the emissions to be less than 0.41lbs/hr PM₁₀. The estimated PM₁₀ emission are 0.0795 lbs/hr. Compliance is expected.
- 3) Emission Offsets:
No offsets are required. The additional VOC emissions of 850 lbs/month (28 lbs/day) for the relocating spray booth is exempt under 1304(c)(1) relocations. The spray booth with an increase in emissions will be bubbled into a 850 lbs/month (28 lbs/day) VOC cap.
- 4) Facility Compliance:
This facility is in compliance with all District Rule and Regulations.
- 5) Major Polluting Facilities:
This facility is a major polluting facility. It is a major modification to a major polluting facility.
(A) Alternative analysis: The equipment causing the increase is subject to the

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Regulation XI VOC limits and an emission limit of 850lbs/month. This represents the most feasible option for the facility..

(B) Statewide Compliance: The Facility has submitted a letter stating that their existing facilities within the state are in compliance with the Clean Air Act.

(C) Protection of Visibility: The increase in emissions from this project will not exceed 15 tons/year of PM₁₀ or 40 tons/year of NO_x

(D) Compliance Through California Environmental Quality Act: The proposed project is exempt from CEQA according to the responses provided on Form 400-CEQA for this project. Their responses in "Review of Impacts Which May Trigger CEQA" on Form 400-CEQA were all marked "No".

Rule 1401: Toxics: Rule 1401 contains the following requirements:

- 1) *(d)(1) MICR and Cancer Burden* - The cumulative increase in MICR which is the sum of the calculated MICR values for all toxic air contaminants emitted from the new, relocated or modified permit unit will not result in any of the following:
 - (A) an increased MICR greater than one in one million (1.0×10^{-6}) at any receptor location, if the permit unit is constructed without T-BACT;
 - (B) an increased MICR greater than ten in one million (1.0×10^{-5}) at any receptor location, if the permit unit is constructed with T-BACT;
 - (C) a cancer burden greater than 0.5.
- 2) *(d)(2) Chronic Hazard Index* - The cumulative increase in total chronic HI for any target organ system due to total emissions from the new, relocated or modified permit unit will not exceed 1.0 at any receptor location.
- 3) *(d)(3) Acute Hazard Index* - The cumulative increase in total acute HI for any target organ system due to total emissions from the new, relocated or modified permit unit will not exceed 1.0 at any receptor location.

The Formaldehyde emissions will be limited to 43 lbs per year per booth to prevent an MICR of greater than one in a million. The toxic Risk assessment was performed using the Toxic Risk Module. The following are the results of the Tier 2 screening.

MICR:

Residential	Commercial
8.50E-08	9.97E-07
Pass	Pass

Based on a maximum of 850 lbs/month(28.3 lbs/day) the Hazard Index had no cumulative impact that exceeded 1.0 for the target organs for Acute or Chronic.

REGULATION XXX

This facility is not in the RECLAIM program. The proposed project is considered as a “de minimis significant permit revision” to the Title V permit for this facility.

Rule 3000(b)(6) defines a “de minimis significant permit revision” as any Title V permit revision where the cumulative emission increases of non-RECLAIM pollutants or hazardous air pollutants (HAPs) from these permit revisions during the term of the permit are not greater than any of the following emission threshold levels:

Air Contaminant	Daily Maximum (lbs/day)
HAP	30
VOC	30
NOx	40
PM10	30
SOx	60
CO	220

To determine if a project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or HAPs, emission increases for non-RECLAIM pollutants or HAPs resulting from all permit revisions that are made after the issuance of the initial Title V permit shall be accumulated and compared to the above threshold levels. This proposed project is the 1st permit revision to the initial Title V permit issued to this facility on January 13, 2003. The following table summarizes the cumulative emission increases resulting from all permit revisions since the initial Title V permit was issued:

Revision	HAP	VOC	NOx	PM ₁₀	SOx	CO
1 st Permit Revision; Relocation of one spray booth and increasing the facility VOC cap by 850 lbs/month	0	28	0	0	0	0
Cumulative Total	0	28	0	0	0	0
Maximum Daily	30	30	40	30	60	220

Since the cumulative emission increases resulting from all permit revisions are not greater than any of the emission threshold levels, this proposed project is considered as a “de minimis significant permit revision”.

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RECOMMENDATION

The proposed project is expected to comply with all applicable District Rules and Regulations. Since the proposed project is considered as a “de minimis significant permit revision”, it is exempt from the public participation requirements under Rule 3006 (b). A proposed permit incorporating this permit revision will be submitted to EPA for a 45-day review pursuant to Rule 3003(j). If EPA does not have any objections within the review period, a revised Title V permit will be issued to this facility.

Natural Gas Combustion
 Krystal Koach

@

	<u>maximum</u>	<u>normal</u>		
<u>hr/dy</u>	24	24	<u>max heat input</u>	1.00E+06 (BTU/hr)
<u>dy/wk</u>	7	7	<u>gross heating value</u>	1050 (BTU/scf)
<u>wk/yr</u>	52	52	<u>maximum gas usage per day</u>	22857 (scf/dy)
<u>load</u>	100%	50%	<u>average gas usage per day</u>	11429 (scf/dy)

	<u>Emission</u>	<u>MAX</u>	<u>AVE</u>	<u>MAX</u>	<u>30-DAY</u>	<u>MAX</u>	<u>MAX</u>
	<u>Factors</u>	(lb/hr)	(lb/hr)	(lb/dy)	(lb/dy)	(lb/yr)	(ton/yr)
SO ₂ (R1)	0.6	0.001	0.000	0.01	NA	5	0.002
SO ₂ (R2)	0.6	0.001	0.000	0.01	0.01	5	0.002
NO ₂ (R1)	100	0.095	0.048	2.286	NA	832	0.416
NO ₂ (R2)	100	0.095	0.048	2.286	2.29	832	0.416
CO (R1)	35	0.033	0.017	0.80	NA	291	0.146
CO (R2)	35	0.033	0.017	0.80	0.80	291	0.146
PM, PM ₁₀ (R1=R2)	7.5	0.007	0.004	0.17	0.17	62	0.031
ROG(R1=R2)	7	0.007	0.003	0.16	0.16	58	0.029
Acetaldehyde	0.0043	4.1E-06	2.0E-06	9.8E-05	NA	3.58E-2	1.79E-5
Acrolein	0.0027	2.6E-06	1.3E-06	6.2E-05	NA	2.25E-2	1.12E-5
Amonia	3.2	3.0E-03	1.5E-03	7.3E-02	NA	2.66E+1	1.33E-2
Benzene	0.008	7.6E-06	3.8E-06	1.8E-04	NA	6.66E-2	3.33E-5
Ethyl Benzene	0.0095	9.0E-06	4.5E-06	2.2E-04	NA	7.90E-2	3.95E-5
Formaldehyde	0.017	1.6E-05	8.1E-06	3.9E-04	NA	1.41E-1	7.07E-5
Hexane	0.0063	6.0E-06	3.0E-06	1.4E-04	NA	5.24E-2	2.62E-5
Napthalene	0.0003	2.9E-07	1.4E-07	6.9E-06	NA	2.50E-3	1.25E-6
PAH's	0.0001	9.5E-08	4.8E-08	2.3E-06	NA	8.32E-4	4.16E-7
Propylene	0.731	7.0E-04	3.5E-04	1.7E-02	NA	6.08E+0	3.04E-3
Toluene	0.0366	3.5E-05	1.7E-05	8.4E-04	NA	3.05E-1	1.52E-4
Xylenes	0.0272	2.6E-05	1.3E-05	6.2E-04	NA	2.26E-1	1.13E-4

NO₂ @ 3% excess O₂----->>> 77 (ppmv)
 CO @ 3% excess O₂----->>> 44 (ppmv)

SO₂ @ 3% excess O₂----->>> 0.3 (ppmv)
 PM @ 12% CO₂----->>> 5.5E-09 (grain/ft³)

TIER 2 SCREENING RISK ASSESSMENT

A/N: 468911
Fac: Krystal Koach

Application deemed complete date: 05/23/07

2. Tier 2 Data

MET Factor	0.78
4 hr	0.85
6 or 7 hrs	0.82

Dispersion Factors

2	3A & 3B For Chronic X/Q
6	For Acute X/Q

Dilution Factors (ug/m3)/(tons/yr)

Receptor	X/Q	X/Qmax
Residential	0.841	85.975
Commercial	16.836	548.1

Adjustment and Intake Factors

	Afann	DBR	EVF
Residential	1	302	0.96
Worker	3	149	0.38

A/N: 468911

Date: 05/23/07

TIER 2 RESULTS

5. MICR

MICR = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) * Afann * Met * DBR * EVF * 1.E-6 * MP

Compound	Residential	Commercial
Toluene (methyl benzene)		
Methyl ethyl ketone		
Xylenes (isomers and mixtures)		
Ethyl benzene		
Isopropyl alcohol		
Formaldehyde	8.50E-08	9.97E-07
Styrene (vinyl benzene)		
Ethylene glycol monobutyl ether		
Propylene glycol monomethyl ether		
Methanol (methyl alcohol)		
Phosphoric acid		
Total	8.50E-08	9.97E-07

Pass

Pass

No Cancer Burden, MICR<1.E=-6

5a. Cancer Burden		no
X/Q for one-in-a-million:		
Distance (meter)		
Area (km2):		
Population:		
Cancer Burden:		

6. Hazard Index

HIA = [Q(lb/hr) * (X/Q)max] * AF / Acute REL

HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL

Target Organs	Acute	Chronic
Alimentary system (liver) - AL		8.09E-04
Bones and teeth - BN		
Cardiovascular system - CV		
Developmental - DEV	6.12E-03	2.66E-02
Endocrine system - END		5.88E-04
Eye	1.70E-01	9.32E-02
Hematopoietic system - HEM		
Immune system - IMM	8.86E-02	
Kidney - KID		1.19E-03
Nervous system - NS	6.39E-03	4.06E-02
Reproductive system - REP	6.12E-03	
Respiratory system - RES	1.70E-01	1.61E-01
Skin		

A/N: 468911

Date: 05/23/07

6a. Hazard Index Acute

HIA = [Q(lb/hr) * (X/Q)max] * AF/ Acute REL

HIA - Residential										
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Toluene (methyl benzene)			9.60E-04	9.60E-04			9.60E-04	9.60E-04	9.60E-04	
Methyl ethyl ketone				1.20E-03					1.20E-03	
Xylenes (isomers and mixture)				8.75E-04					8.75E-04	
Ethyl benzene										
Isopropyl alcohol				6.13E-03					6.13E-03	
Formaldehyde				1.39E-02		1.39E-02			1.39E-02	
Styrene (vinyl benzene)				1.88E-03					1.88E-03	
Ethylene glycol monobutyl ether				1.68E-03					1.68E-03	
Propylene glycol monomethyl ether										
Methanol (methyl alcohol)							4.30E-05			
Phosphoric acid										
Total			9.60E-04	2.66E-02		1.39E-02	1.00E-03	9.60E-04	2.66E-02	

HIA - Commercial										
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Toluene (methyl benzene)			6.12E-03	6.12E-03			6.12E-03	6.12E-03	6.12E-03	
Methyl ethyl ketone				7.63E-03					7.63E-03	
Xylenes (isomers and mixture)				5.58E-03					5.58E-03	
Ethyl benzene										
Isopropyl alcohol				3.91E-02					3.91E-02	
Formaldehyde				8.86E-02		8.86E-02			8.86E-02	
Styrene (vinyl benzene)				1.20E-02					1.20E-02	
Ethylene glycol monobutyl ether				1.07E-02					1.07E-02	
Propylene glycol monomethyl ether										
Methanol (methyl alcohol)							2.74E-04			
Phosphoric acid										
Total			6.12E-03	1.70E-01		8.86E-02	6.39E-03	6.12E-03	1.70E-01	

6b. Hazard Index Chronic

$$HIC = [Q(\text{ton/yr}) * (X/Q) * MET * MP] / \text{Chronic REL}$$

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Toluene (methyl benzene)				1.26E-03						1.26E-03		1.26E-03	
Methyl ethyl ketone													
Xylenes (isomers and mixture)										2.94E-04		2.94E-04	
Ethyl benzene	2.94E-05			2.94E-05	2.94E-05				2.94E-05				
Isopropyl alcohol				2.99E-05					2.99E-05				
Formaldehyde						4.65E-03						4.65E-03	
Styrene (vinyl benzene)										4.68E-04			
Ethylene glycol monobutyl ether													
Propylene glycol monomethyl ether	1.10E-05												
Methanol (methyl alcohol)				3.21E-06									
Phosphoric acid												1.84E-03	
Total	4.04E-05			1.33E-03	2.94E-05	4.65E-03			5.93E-05	2.03E-03		8.05E-03	

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HIC - Commercial													
Compound	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Toluene (methyl benzene)				2.53E-02						2.53E-02		2.53E-02	
Methyl ethyl ketone													
Xylenes (isomers and mixture)													
Ethyl benzene	5.88E-04			5.88E-04	5.88E-04				5.88E-04			5.88E-03	
Isopropyl alcohol				5.99E-04					5.99E-04				
Formaldehyde						9.32E-02						9.32E-02	
Styrene (vinyl benzene)										9.38E-03			
Ethylene glycol monobutyl ether													
Propylene glycol monomethyl ether	2.21E-04												
Methanol (methyl alcohol)				6.43E-05									
Phosphoric acid												3.68E-02	
Total	8.09E-04			2.66E-02	5.88E-04	9.32E-02			1.19E-03	4.06E-02		1.61E-01	