

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE Coating, Printing and Aerospace Operations Team PERMIT APPLICATION EVALUATION	Page	1 of 13
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	Processed by	Jason Aspell
	Reviewed by	Hamed Mandilawi
	Date	08/07/08

PERMIT TO CONSTRUCT/OPERATE EVALUATION
Spray Booth (change of condition), Abrasive Blasting (new construction)

Applicant's Name: Robinson Helicopter Co., Inc.
Company ID No.: 479021
Mailing Address: 2901-31 Airport Dr., Torrance, CA 90505
Equipment Address: 2901-31 Airport Dr., Torrance, CA 90505

EQUIPMENT DESCRIPTION:

Application 479021 (formerly P/N R-D89462, A/N 297798):

SPRAY BOOTH #2, BINKS MODEL NUMBER CA-642-TLO, AUTOMOTIVE TYPE, 15'-1" W. X 49'-10" L. X 13'-6" H., WITH FIRST STAGE 20" X 20" OSM FILTERS, SECOND STAGE OSM-100 FILTERS, AND THIRTY TWO THIRD-STAGE 20" X 20" P.E. CELL FILTERS BY AIR TECHNOLOGIES INC., AND ONE 7.5 H.P. EXHAUST FAN 15,700 SCFM CAPACITY.

Application 479022:

ABRASIVE BLASTING SYSTEM, CONSISTING OF:

1. ONE COMMON BLASTING CABINET, EMPIRE, MODEL NO. P60120, 10'-0" L. X 5'-0" W. X 3'-7" H.,
2. TWO NOZZLES, 3/8" DIA. EACH,
3. PLANT AIR, SUPPLIED AT 100 PSI MAXIMUM,

VENTED TO AIR POLLUTION CONTROL EQUIPMENT.

Application 479023:

AIR POLLUTION CONTROL SYSTEM, CONSISTING OF:

1. TWO DUST COLLECTORS, EACH WITH TWO 14" DIA X 28" L. CARTRIDGE-TYPE FILTERS, 452 SQ. FT. TOTAL FILTER AREA,
2. EXHAUST SYSTEM WITH TWO 2 H.P. BLOWERS,

VENTING AN ABRASIVE BLASTING SYSTEM.

Application 475328:

Title V Revision

HISTORY:

The company submitted Application Nos. 479021-3 and 479025 on 3/6/08 for a change of conditions to a spray booth and the new construction of an abrasive blasting unit and the associated control equipment. The company is a Title V facility, but is not in the RECLAIM program. The facility is located in an industrial area adjacent to the Torrance Airport, with no nearby sensitive receptors. The facility received a Notice of Violation in 2005 for a non-certified Phase I system on their gasoline dispensing equipment, which is currently under review because the equipment is for aviation fuel. There is no other recent enforcement action for the facility. There is no recent history of complaints at the facility.

As part of the change of conditions to remove chromium usage from the spray booth, the company has requested the cancellation of A/N 458465 for which a PC was issued. This application was submitted to install HEPA filters on Spray Booth #2 to comply with Rule 1469.1 due to the spraying of chromium coatings. With the requested removal of chromium, the HEPA filters are no longer required. In addition the spray booth permit under A/N 396594 will be inactivated. The equipment under this permit has a subsequent permit, but the old permit was never inactivated.

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Spray Booth

The emissions from the spray booth will remain the same as the previous permit under A/N 297798. Please refer to the evaluation for Application No. 297798 for further details.

RULES/REGULATION
EVALUATION:

RULE 212, PUBLIC NOTIFICATION

SUBPARAGRAPH 212(c)(1):

This paragraph requires a public notice for all new or modified permit units that may emit air contaminants located within 1,000 feet from the outer boundary of a school. According to the MSN Yellow Pages and Google Maps, the facility will not be within 1000 feet of any schools. Therefore, public notice distribution will not be required under this section.

PARAGRAPH 212(c)(2):

The changes in condition for the spray booth will not result in emission increases exceeding the daily maximums for VOC or PM₁₀ emissions as specified in Rule 212(g) since the emissions will remain the same. The abrasive blasting equipment will result in less than one pound of PM₁₀ per day. Therefore, the emissions for this facility will remain below the thresholds of 212(g). A public notice will not be required under this paragraph.

PARAGRAPH 212(c)(3):

A public notice will not be required under this paragraph. See Rule 1401 evaluation section.

PARAGRAPH 212(g):

The change in condition will not result in emission increases for the spray booth. The abrasive blasting equipment will result in an increase of less than one pound PM₁₀ per day which is well below the thresholds of this rule for PM₁₀. Therefore, a 30-day public notice period will not be required under this paragraph.

RULE 401, VISIBLE EMISSIONS

With the proper use of the equipment, no visible emissions are expected. The abrasive blasting equipment will be equipped with cartridge filters with a 99% control efficiency. Collected dust will be required to be discharged into closed containers. Compliance with this rule is expected.

RULE 402, NUISANCE

With the proper operation of the equipment, no nuisance problems are expected at this facility. The facility is located within an industrial area with no nearby sensitive receptors. The spray booth will be the same as previously permitted. The abrasive blasting equipment will be equipped with cartridge filters and will be exhausted inside the building. The emissions from the equipment should not result in a nuisance. Compliance with this rule is expected.

RULE 404, PARTICULATE MATTER - CONCENTRATION

The abrasive blasting cabinet will be exhausted at a rate of 3600 cfm. The applicable limit of the rule for this exhaust rate is 0.107 grains per cubic foot. As previously calculated the particulate exhaust concentration of the abrasive will be 1.8 x10⁻⁶ grains per cubic foot. The spray booth has already been evaluated for compliance with this rule. Compliance with this rule is expected.

RULE 481, SPRAY COATING OPERATIONS

The company will comply with this rule by using an HVLP spray gun to apply coatings in this spray booth. Compliance with this rule is expected.

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RULE 1124, AEROSPACE ASSEMBLY AND COMPONENT MANUFACTURING OPERATIONS

In the spray booth, the company will be switching coatings and will be spraying Desoto 7501 and Deft 44GY079 primers and Dupont Imron 5000 basecoat. The VOC content of the Imron 5000 is 2.8 lb VOC per gallon. The VOC limit for a topcoat in this rule is 3.5 lb VOC per gallon. The 7501 will have a VOC content of 2.92 lb/gal and the Deft will have a VOC content of 2.83 lb/gal. The limit for primers under this rule is 2.92 lb VOC/gal. The coatings will be applied with an HVLP spray gun which will meet the transfer efficiency requirements of this rule. For solvent cleaning purposes, the facility will be using Dupont 3949S for items processed in the spray booth. This solvent has a material VOC content of 48 g/L and will be hand applied. The facility will comply with the 200 g/L VOC limit and the application method requirements of this rule. Coating and adhesive application equipment is subject to Rule 1171. Compliance with this rule is expected.

RULE 1132, FURTHER CONTROL OF VOC EMISSIONS FROM HIGH EMITTING SPRAY BOOTH FACILITIES

The facility has a daily VOC limit of 98 lb VOC/day, which results in a facility VOC PTE less than 20 tons per year. Therefore the facility is not subject to the requirements of this rule.

RULE 1140, ABRASIVE BLASTING

The company will comply with the requirements of this rule by performing abrasive blasting operations in a confined cabinet. The cabinet will also conform to the AQMD's design guidelines.

RULE 1171, SOLVENT CLEANING OPERATIONS

The company will be using acetone for spray gun cleaning. Acetone is defined as an exempt compound under Rule 102. Compliance with this rule is expected.

REGULATION XIII

RULE 1303(a), BEST AVAILABLE CONTROL TECHNOLOGY (BACT)

The change in change in conditions will not result in an emissions increase for the spray booth so BACT requirements will not be triggered. The abrasive blasting cabinet will be equipped with cartridge filters which will meet the BACT Guidelines requirement for this equipment. Compliance with this rule is expected.

RULE 1303(b)(1), MODELING

The change in conditions will not result in an emissions increase for the spray booth so modeling requirements will not be triggered. The abrasive blasting cabinet will result in an emission increase of 0.03 lb PM₁₀/hr. This will be less than the applicable screening emission level under Table 1A. Compliance with this rule is expected.

RULE 1304(b)(2), OFFSETS

The change in conditions will not result in the increased emission of any criteria pollutant for the spray booth. There will an increase of 0.68 lb PM₁₀ per day. The facility's PM₁₀ emissions will remain well below the threshold of 4 tons PM₁₀ per year. Therefore no offsets will be required for this project.

RULE 1401, NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

Spray Booth

According to the Material Safety Data Sheets (MSDS) that were submitted with these applications, Robinson Helicopter will be spraying coatings that do not contain any chromium compounds, but will contain other toxic compounds identified in Table 1 of Rule 1401 (effective date 3/4/05). The company previously sprayed chromium containing coatings and applied for a modification to the spray booth to add HEPA filters to comply with the requirements of Rule 1469.1. The HEPA filters

were never installed since the company decided to change coatings. According to 1401(f)(3), the HIC and MICR for a modification are based on the difference in risk before and after the modification. The premodification risk will be based on the scenario assuming the company installed the filters and continued to use the chromium containing coatings which would have been required of Rule 1469.1. The permit allows for 120 pounds of strontium chromate emissions from coatings used in this booth. This results in the following hexavalent chromium emissions:

$$120 \text{ lb SrCrO}_4/\text{mo} \times (52/203.6) = 30.6 \text{ lb Cr}^{+6}/\text{mo}$$

$$30.6 \text{ lb Cr}^{+6}/\text{mo} \div 30 \text{ day/mo} \div 24 \text{ hr/day} = 0.0425 \text{ lb Cr}^{+6}/\text{hr}$$

$$R1_{\text{Cr}^{+6}} = 0.0425 \text{ lb Cr}^{+6}/\text{hr} (1-0.65) = 0.015 \text{ lb Cr}^{+6}/\text{hr}$$

$$R2_{\text{Cr}^{+6}} = 0.015 (1-0.9997) = 4.5 \times 10^{-6} \text{ lb Cr}^{+6}/\text{hr}$$

The new coatings contain ethyl benzene, MEK, xylene, toluene and nickel oxide. Since different colors of the coating contain different levels of the toxic compounds, the maximum concentration of each compound was used to calculate the maximum emissions. Two health risk assessment were performed to determine the pre and post modification MICR and HIC, and HIA. Pursuant to 1401, The MICR and HIC is calculated by taking the difference between the pre and post modification emissions, and the HIA is calculated by accounting for the total emissions after the modification. The calculations resulted in the following:

	Residential	Commercial
Premodification	2.29×10^{-6}	1.78×10^{-6}
Postmodification	2.21×10^{-7}	1.72×10^{-7}
Δ MICR	-2.07×10^{-6}	-1.61×10^{-6}

Hazard Index

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

Target Organs	Pre HIC	Post HIC	Δ HIC
Alimentary system (liver) - AL		2.30×10^{-5}	$+2.30 \times 10^{-5}$
Bones and teeth - BN			
Cardiovascular system - CV			
Developmental - DEV		3.52×10^{-4}	$+3.52 \times 10^{-4}$
Endocrine system - END		2.3×10^{-5}	$+2.3 \times 10^{-5}$
Eye			
Hematopoietic system - HEM		3.34×10^{-2}	$+3.34 \times 10^{-2}$
Immune system - IMM			
Kidney - KID		2.3×10^{-5}	$+2.3 \times 10^{-5}$
Nervous system - NS		6.11×10^{-4}	$+6.11 \times 10^{-4}$
Reproductive system - REP			
Respiratory system - RES	3.09×10^{-4}	3.4×10^{-2}	$+3.4 \times 10^{-2}$
Skin			

Hazard Index

$$HIA = [Q(\text{lb/hr}) * (X/Q)\text{max}] * AF / \text{Acute REL}$$

Target Organs	Acute
Alimentary system (liver) - AL	
Bones and teeth - BN	
Cardiovascular system - CV	
Developmental - DEV	5.64×10^{-5}
Endocrine system - END	
Eye	5.13×10^{-4}
Hematopoietic system - HEM	
Immune system - IMM	1.18×10^{-2}
Kidney - KID	
Nervous system - NS	5.64×10^{-5}
Reproductive system - REP	5.64×10^{-5}
Respiratory system - RES	1.23×10^{-2}
Skin	

The emissions from this booth will result in a Δ MICR, Δ HIC and HIA that are less than the limits of this rule.

A permit condition will be added disallowing the use of materials that contain toxic air contaminants as identified in Rule 1401, as amended on March 4, 2005, or earlier, except for ethyl benzene, MEK, toluene, xylene and nickel oxide. Due to the carcinogenicity of nickel, the total quantity of nickel containing coatings shall not exceed 30 gallons in any one month (The company typically uses 12 gallons per year). Compliance with this rule is expected

Abrasive Blasting

The abrasive blasting cabinet will be used to remove paint from aircraft parts. Since they are aerospace coatings the possibility of chromium emissions exists. The equipment is equipped with cartridge filters that have a collection efficiency of 99%. A fallout factor of 50% will be assumed. The company performs no more than 125 overhauls per year in which they need to remove paint. Since the company has reformulated there paint to non-chromium containing coatings, not all of the paint removed will result in hexavalent chromium emissions, but it will be assumed that all of the paint does contain chrome. It typically takes one quart of paint to completely paint a helicopter. Accounting for overspray using an HVLP spray gun, each helicopter has 0.1625 gallons of paint to be removed. The coatings that used to be sprayed contained 26.91% by wt. strontium chromate and 0.83% by wt. of barium chromate. For 125 overhauls this is 20.31 gal of coatings removed per year. The total hexavalent chromium content of the coating is:

$$10.8 \text{ lb/gal} \times 0.2691 \text{ SrCrO}_4 \text{ lb/lb coating} \times 52/203.6 = 0.74 \text{ lb Cr}^{+6}/\text{gal}$$

$$10.8 \text{ lb/gal} \times 0.0083 \text{ BaCrO}_4 \text{ lb/lb coating} \times 52/253.3 = 0.018 \text{ lb Cr}^{+6}/\text{gal}$$

$$\text{Total Cr}^{+6}/\text{gal} = 0.74 + 0.018 = 0.758 \text{ lb Cr}^{+6}/\text{gal coating}$$

Therefore while the paint is being removed:

$$R1_{Cr+6, yr} = 0.758 \text{ lb Cr}^{+6}/\text{gal} \times 20.31 \text{ gal/yr} \times (1-0.50) = 7.7 \text{ lb Cr}^{+6}/\text{yr}$$

$$R1_{Cr+6, hr} = 7.7 \text{ lb Cr}^{+6}/\text{yr} \div 365 \text{ day/yr} \div 24 \text{ hr/day} = 8.8 \times 10^{-4} \text{ Cr}^{+6}/\text{hr}$$

$$R2_{Cr+6, yr} = 7.7 \times (1-0.99) = 0.077 \text{ lb Cr}^{+6}/\text{yr}$$

$$R1_{Cr+6, hr} = 0.077 \text{ lb Cr}^{+6}/\text{yr} \div 365 \text{ day/yr} \div 24 \text{ hr/day} = 8.8 \times 10^{-6} \text{ Cr}^{+6}/\text{hr}$$

A Tier III HRA was performed based on these maximum emissions. The permit unit was modeled as a volume source since the equipment vent inside the building. The resulting MICR, HIC and HIA were all below the limits of this rule and are summarized below. Compliance with this rule is expected.

	Residential	Commercial
MICR	7.12×10^{-7}	1.66×10^{-7}

Hazard Index

Target Organs	Acute	Chronic
Alimentary system (liver) - AL		
Bones and teeth - BN		
Cardiovascular system - CV		
Developmental - DEV		
Endocrine system - END		
Eye		
Hematopoietic system - HEM		
Immune system - IMM		
Kidney - KID		
Nervous system - NS		
Reproductive system - REP		
Respiratory system - RES		2.87×10^{-5}
Skin		

40 CFR 63 SUBPART GG- National Emission Standards for Aerospace Manufacturing

The facility is a major source pursuant to §63.2, and will be subject to the requirements of this subpart. To comply with §63.744 the company will be using acetone for hand wipe operations and enclosed cleaning systems to clean application equipment. The cleaner will be an exempt solvent that is non-photochemically reactive and is not a HAP. The facility will be applying primers and topcoats in the spray booth. The VOC content of the Imron 5000 (topcoat) is 2.8 lb VOC per gallon (HAP content is less than this value). The VOC and HAP limit for a topcoat in this section is 3.5 lb per gallon. The 7501 will have a VOC content of 2.92 lb/gal and the Deft will have a VOC content of 2.83 lb/gal (HAP contents are less than these values). The VOC and HAP limit for primers under this

section is 2.92 lb /gal. The spray booth is an existing piece of equipment and will be equipped with filters to meet the 90% efficiency requirement listed in Table I.

The facility will be performing depainting operating with abrasive media in an enclosed cabinet. Since the cabinet is new HAP emissions, it will need to meet the filtration efficiency requirements of Table 3 or 4 of this subpart. The cartridge filters will have an efficiency of 99% which will exceed the 95% requirement. The facility is expected to comply with this subpart.

REGULATION XXX: TITLE V

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 **Title V renewal permit** shall be accumulated and compared to the above threshold levels. This proposed project is the 1st permit revision to the **Title V renewal permit** issued to this facility on **February 4, 2007**. The following table summarizes the cumulative emission increases resulting from all permit revisions since the **Title V renewal permit** was issued:

Revision	HAP	VOC	NOx	PM ₁₀	SOx	CO
1 st Permit Revision; addition of Abrasive Blasting Cabinet, change of conditions for spray booth (A/Ns 479021, 479023)	0	0	0	1	0	0
Cumulative Total	0	0	0	1	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.

PERMIT CONDITIONS

The equipment will be subject to the following permit conditions

Spray Booth Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THREE STAGE FILTER SYSTEM.
[RULE 1303 (a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED TO INDICATE IN INCHES OF WATER THE STATIC PRESSURE DIFFERENTIAL ACROSS THE THREE STAGE FILTER SYSTEM. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.85 INCHES OF WATER.
[RULE 1303 (a)(1)-BACT]
5. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED 80 POUNDS IN ANY ONE DAY.
[RULE 1303 (b)(2) -OFFSET]
6. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS TOXIC AIR CONTAMINANTS IN RULE 1401, AS AMENDED MARCH 7, 2008, WITH THE EXCEPTION OF ETHYL BENZENE (CAS NO. 100-41-4), METHYL ETHYL KETONE (CAS NO. 78-93-3), TOLUENE (CAS NO. 108-88-3), XYLENE (CAS NO. 1330-20-7), AND NICKEL OXIDE (CAS NO 1313-99-1).
[RULE 1401]
7. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOLATILE ORGANIC COMPOUND (VOC), EMISSIONS IN POUNDS AND THE VOC CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF ANY DISTRICT REPRESENTATIVE.
[RULE 109, 1303 (b)(2)-OFFSET]
8. THE TOTAL QUANTITY OF COATINGS CONTAINING NICKEL OXIDE SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 30 GALLONS IN ANY ONE CALENDAR MONTH.
[RULE 1401]

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9. THE OPERATOR SHALL MAINTAIN RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 8. THE RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF ANY DISTRICT REPRESENTATIVE.
[RULE 1401]

Periodic Monitoring:

10. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
- A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
- [RULE 3004 (a)(4)]
11. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

Emissions And Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 109
 - HAP: 40 CFR 63 SUBPART GG, SEE SECTION J FOR REQUIREMENTS
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - PM: RULE 481

Abrasive Blasting Cabinet Conditions:

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE DISTRICT.
[RULE 1303 (a)(1)-BACT]
- 4. ONLY PLASTIC ABRASIVE MEDIA SHALL BE USED IN THIS EQUIPMENT.
[RULE 1303 (b)(2)-OFFSET]

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Periodic Monitoring:

5. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

Emissions and Requirements:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
 PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

Dust Collector Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

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2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. DUST COLLECTED IN THE EQUIPMENT SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.
[RULE 1303 (a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTERS.
[RULE 1303 (a)(1)-BACT]
5. THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTERS SHALL NOT EXCEED 4 INCHES OF WATER COLUMN.
[RULE 1303 (a)(1)-BACT]

Periodic Monitoring:

6. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
[RULE 3004(A)(4)]
7. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A QUARTERLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE QUARTERLY PERIOD. THE ROUTINE QUARTERLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.
THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:
 - A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.
[RULE 3004 (a)(4)]

Emissions and Requirements:

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	Processed by	Jason Aspell
	Reviewed by	Hamed Mandilawi
	Date	08/07/08

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS