

## **FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC**

### **Facility Equipment and Requirements (Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

## FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC

### PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

<b>Application number</b>	<b>Permit to Operate number</b>	<b>Equipment description</b>
447574	F91632	COATING, LAMINATING & DRYING SYSTEM
447575	F91633	APC SYSTEM WITH REGENERATIVE THERMAL OXIDIZERS
517617		APC SYSTEM WITH REGENERATIVE THERMAL OXIDIZER

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

## **FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC**

### **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 COMPOUNDS (VOC) EMISSIONS TO THE ATMOSPHERE FROM THIS FACILITY SHALL NOT EXCEED 750 POUNDS IN ANY ONE DAY. FOR EQUIPMENT THAT IS VENTED TO AIR POLLUTION CONTROL (APC) EQUIPMENT, THE VOC EMISSIONS SHALL BE CALCULATED USING THE REQUIRED OVERALL CONTROL EFFICIENCY SPECIFIED IN THE PERMIT(S) FOR THE APC EQUIPMENT.  
[RULE 109, 1303(b)(2)-OFFSET]
3. IN ADDITION TO THE RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS OF DAILY VOC EMISSIONS FROM THIS FACILITY, IN POUNDS. 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 THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.  
[RULE 109, 1303(b)(2)-OFFSET]
4. MATERIAL SAFETY DATA SHEETS FOR MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303(b)(2)-OFFSET]

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### PERMIT TO OPERATE

Permit No. F91632  
A/N 447574

#### Equipment Description:

COATING, LAMINATING AND DRYING SYSTEM CONSISTING OF:

1. SECTION 1
  - A. TWO COATING STATIONS AND ONE LAMINATOR IN PERMANENT TOTAL ENCLOSURE #1, WITH A 10 HP EXHAUST BLOWER
  - B. TWO OVENS, #1 AND #2, EACH WITH A 1,500,000 BTU/HR BURNER, TWO 10 HP CIRCULATING BLOWERS, A 1/3 HP COMBUSTION AIR BLOWER AND A 15 HP BLOWER COMMON WITH OVEN #3
2. SECTION 2
  - A. TWO COATING STATIONS AND ONE LAMINATOR IN PERMANENT TOTAL ENCLOSURE #2, WITH A 10 HP EXHAUST BLOWER
  - B. TWO OVENS, #3 AND #4, EACH WITH A 1,500,000 BTU/HR BURNER, TWO 10 HP CIRCULATING BLOWERS, A 1/3 HP COMBUSTION AIR BLOWER AND A 15 HP BLOWER COMMON WITH OVEN #2
3. SECTION 3
  - A. ONE COATING STATION IN PERMANENT TOTAL ENCLOSURE #3
  - B. ONE OVEN #5, WITH SEVEN 3 KW ULTRA VIOLET (UV) LAMPS, OR INDIRECTLY HEATED AND EXHAUSTED BY OVEN #3 OR #4

#### 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, WHEN IN OPERATION, SHALL BE VENTED TO AN AIR POLLUTION CONTROL DEVICE THAT IS IN FULL USE AND HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE DISTRICT.  
[RULE 1303(a)(1)-BACT]

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4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF DECEMBER 7, 1990 OR EARLIER.  
[RULE 1401]
5. IN ADDITION TO THE RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS OF DAILY VOC EMISSIONS FROM THIS EQUIPMENT IN POUNDS AND VOC CONTENT OF EACH MATERIAL USED IN THE EQUIPMENT. 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 THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.  
[RULE 109, 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL OPERATE AND MAINTAIN THE ENTIRE COATING/LAMINATION LINE AS PERMANENT TOTAL ENCLOSURES (PTEs). PERMANENT TOTAL ENCLOSURES SHALL MEET ALL THE CRITERIA SPECIFIED IN US EPA METHOD 204 DURING OPERATION OF THIS EQUIPMENT.  
[RULE 1303(a)(1)-BACT]

### **Emissions and Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 1128, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS  
HAP(S): 40CFR63 SUBPART JJJJ, SEE SECTION J FOR REQUIREMENTS  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC

### PERMIT TO OPERATE

Permit No. F91633  
A/N 447575

#### Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. TWO REGENERATIVE THERMAL OXIDIZERS, AEREX, MODEL RETOX 7500, PARALLEL ARRANGEMENT, EACH 10'-6" W. X 20'-4" L. X 6'-0" H., WITH GRAVEL BED HEAT RECUPERATORS, A 68 KW ELECTRIC HEATER FOR START-UP, AND NATURAL GAS INJECTION, 1,000,000 BTU PER HOUR CAPACITY.
2. EXHAUST SYSTEM, WITH TWO EXHAUST BLOWERS, EACH 60 HP, AND 7,500 SCFM CAPACITY, VENTING THE COATING, LAMINATING AND DRYING SYSTEM THROUGH THREE PERMANENT TOTAL ENCLOSURES.

#### 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 BE MAINTAINED AND OPERATED AT A MINIMUM VOC DESTRUCTION EFFICIENCY OF 95% AND OVERALL VOC CONTROL EFFICIENCY (COLLECTION AND DESTRUCTION) OF 95 % WHEN THE BASIC EQUIPMENT IT SERVES IS IN OPERATION.  
[RULE 1128, 1303(a)(1)-BACT]
4. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE COMBUSTION CHAMBERS TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,700 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

THE OPERATOR SHALL OPERATE AND MAINTAIN A TEMPERATURE MEASURING AND RECORDING SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE COMBUSTION CHAMBERS TEMPERATURE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A COMBUSTION CHAMBERS TEMPERATURE OF LESS THAN 1,700 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE COMBUSTION CHAMBERS TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE COMBUSTION CHAMBERS TEMPERATURE AT OR ABOVE 1,700 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS. [RULE 1303(a)(1)-BACT, 3004(a)(4)-PERIODIC MONITORING; 40CFR Part 64, 10-22-1997]

5. THIS EQUIPMENT SHALL BE IN FULL OPERATION WHEN THE BASIC EQUIPMENT IT SERVES IS IN OPERATION, EXCEPT DURING MAKE-READY TESTING WHICH TAKES LESS THAN TWO MINUTES PER TEST OR WHEN USING RULE 1128 COMPLIANT COATINGS. [RULE 1128, 1303(a)(1)-BACT]
6. DURING THE MANUFACTURE OF SILICON-BASED PRODUCTS, STACK NO. 2 MAY BE VENTED DIRECTLY TO THE ATMOSPHERE, BUT SHALL BE MONITORED FOR VOC WITH A DIGITAL READING DEVICE INDICATING THE LOWER EXPLOSION LIMIT. [RULE 1303(a)(1)-BACT]

### **Periodic Monitoring:**

7. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.

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- B. THE TEST SHALL BE CONDUCTED NO LATER THAN JULY 9, 2010 UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
  - C. THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSIONS USING AN APPROVED DISTRICT METHOD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE PERMIT CONDITION(S), RULES AND REGULATIONS.
  - D. THE SOURCE TEST SHALL BE CONDUCTED WHILE THE OXIDIZERS ARE OPERATING AT A TEMPERATURE OF NOT LESS THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS GREATER THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT, THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT MAY BE INCREASED TO REFLECT THE OPERATING TEMPERATURE DURING THE SOURCE TEST.
  - E. THE OPERATOR SHALL COMPLY WITH ADMINISTRATIVE CONDITIONS NOs. 8, 9, AND 10 OF SECTION E OF THIS FACILITY PERMIT.
- [RULE 3004(a)(4)]

### **Emissions and Requirements:**

- 8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: 0.1 GR/SCF, RULE 409
  - CO: 2000 PPMV, RULE 407

## FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC

### PERMIT TO CONSTRUCT

**A/N 517617**  
**Granted as of**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. REGENERATIVE THERMAL OXIDIZER, TANN CORPORATION, MODEL TR 2088, 33'-6" W. x 28'-4" L. x 18'-10" H., WITH TWO CERAMIC BED HEAT RECUPERATORS, NATURAL GAS INJECTION AND ONE 4,600,000 BTU PER HOUR MAXON KINEDIZER LE 4" START-UP BURNER..
2. EXHAUST SYSTEM, WITH ONE EXHAUST BLOWER, 125 HP, AND 20,000 SCFM CAPACITY, VENTING THE COATING, LAMINATING AND DRYING SYSTEM AND MIXING ROOM THROUGH FOUR PERMANENT TOTAL ENCLOSURES (PTE) AS DESCRIBED BELOW:
  - A. PTE #1 WITH A 10 HP EXHAUST BLOWER VENTING:
    - 1) TWO COATING STATIONS AND ONE LAMINATOR
    - 2) TWO OVENS, #1 AND #2 WITH A 15 HP EXHAUST BLOWER COMMON WITH OVEN #3.
  - B. PTE #2 WITH A 10 HP EXHAUST BLOWER (COMMON WITH PTE #3) VENTING:
    - 1) TWO COATING STATIONS AND ONE LAMINATOR
    - 2) TWO OVENS, #3 AND #4 WITH A 15 HP BLOWER COMMON WITH OVEN #2.
  - C. PTE #3 WITH A 10 HP EXHAUST BLOWER (COMMON WITH PTE #2) VENTING:
    - 1) ONE COATING STATION
    - 2) ONE OVEN #5, UV OR INDIRECTLY HEATED AND EXHAUSTED BY OVEN #3 OR #4.
  - D. PTE #4 WITH A 5 HP EXHAUST BLOWER VENTING:

MIXING ROOM CONTAINING BATCH TYPE MIXING VESSELS LESS THAN 251 GALLONS CAPACITY WITH NO SUPPLEMENTAL HEAT ADDED (RULE 219 EXEMPT)

#### **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]

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3. THE OXIDES OF NITROGEN (NO<sub>x</sub>) EMISSIONS DISCHARGED FROM THE START-UP BURNER OF THE REGENERATIVE THERMAL OXIDIZER SHALL NOT EXCEED 30 PPM, CALCULATED AS NO<sub>2</sub> BY VOLUME ON A DRY BASIS @ 3% OXYGEN, AVERAGED OVER 30 CONSECUTIVE MINUTES. [RULE 1147, 1303(a)(1)-BACT]
4. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:
  - A. THE COMBUSTION CHAMBER TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,500 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
  - B. THE OPERATOR SHALL OPERATE AND MAINTAIN A TEMPERATURE MEASURING AND RECORDING SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE COMBUSTION CHAMBER TEMPERATURE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - C. FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A COMBUSTION CHAMBER TEMPERATURE OF LESS THAN 1,500 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE COMBUSTION CHAMBER TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.
  - D. WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE COMBUSTION CHAMBER TEMPERATURE AT OR ABOVE 1,500 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.
  - E. ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.
  - F. THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.
  - G. THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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- H. THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.  
[RULE 1303(a)(1)-BACT, 3004(a)(4)-PERIODIC MONITORING; 40CFR Part 64, 10-22-1997]
5. THE REGENERATIVE THERMAL OXIDIZER AND PERMANENT TOTAL ENCLOSURES SHALL BE OPERATED WHENEVER ANY OF THE BASIC EQUIPMENT IT SERVES IS IN OPERATION.  
[1303(a)(1)-BACT]
6. THE OPERATOR SHALL MAINTAIN THIS EQUIPMENT AS A PERMANENT TOTAL ENCLOSURE (PTE) AND COMPLY WITH ALL CRITERIA SPECIFIED IN EPA METHOD 204.  
[1303(a) (1)-BACT]
7. ALL ACCESS DOORS TO THE PERMANENT TOTAL ENCLOSURES SHALL BE KEPT CLOSED DURING NORMAL OPERATIONS.  
[1303(a) (1)-BACT]
8. THIS EQUIPMENT SHALL BE MAINTAINED AND OPERATED AT A MINIMUM VOC DESTRUCTION EFFICIENCY OF 95% AND OVERALL VOC CONTROL EFFICIENCY (COLLECTION AND DESTRUCTION) OF 95 % WHEN THE BASIC EQUIPMENT IT SERVES IS IN OPERATION EXCEPT AS SPECIFIED IN CONDITION NOS. 16 AND 17.  
[RULE 1128, 1171, 1303(a)(1)-BACT]
9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE PERMIT CONDITIONS:
- A. THE SOURCE TESTS SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
- B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT. THE TEST PROTOCOL SHALL BE APPROVED IN WRITING BY THE DISTRICT BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE COMPLETED DISTRICT FORMS ST-1 AND ST-2 SPECIFYING THE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING IT MEETS THE CRITERIA IN DISTRICT RULE 304(K), AND A DESCRIPTION OF THE SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
- C. THE SOURCE TESTS SHALL CONSIST OF, BUT MAY NOT BE LIMITED TO, TESTING OF THE INLET AND OUTLET OF THE REGENERATIVE THERMAL OXIDIZER FOR:
- (1) VOLATILE ORGANIC COMPOUND (VOC) IN PPMV AND LBS/HR
  - (2) VOC DESTRUCTION EFFICIENCY
  - (3) VOC COLLECTION EFFICIENCY (PTE)
  - (4) VOC OVERALL CONTROL EFFICIENCY
  - (5) NOX IN PPM DURING NORMAL OPERATION
  - (6) USAGE OF ALL VOC-CONTAINING MATERIALS DURING THE TEST

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- (7) OXYGEN CONTENT
- (8) MOISTURE CONTENT
- (9) FLOW RATE
- (10) TEMPERATURE

- D. THE SOURCE TEST SHALL BE CONDUCTED WHILE THE OXIDIZER IS OPERATING AT A TEMPERATURE OF NOT LESS THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS GREATER THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT, THE MINIMUM OPERATING TEMPERATURE MAY BE INCREASED AT THE TIME A PERMIT TO OPERATE IS ISSUED TO REFLECT THE OPERATING TEMPERATURE DURING THE SOURCE TEST.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]
10. IN ADDITION TO THE TEST DURING NORMAL OPERATION, A SOURCE TEST FOR NO<sub>x</sub> AND CO EMISSIONS SHALL ALSO BE CONDUCTED DURING THE START-UP OF THE OXIDIZER (WHEN THE START-UP BURNER IS OPERATING) BEFORE THE PROCESS AIR STREAM FROM THE COATING, LAMINATING AND DRYING SYSTEM AND PERMANENT TOTAL ENCLOSURES IS INTRODUCED INTO THE OXIDIZER.
- THE TESTS SHALL MEASURE NO<sub>x</sub>, CO, OXYGEN CONTENT, MOISTURE CONTENT, TEMPERATURE, AND THE EXHAUST FLOW RATE AT THE OUTLET OF THIS EQUIPMENT, AT THE NORMAL OPERATING LOAD, USING THE APPROPRIATE TEST METHODS SPECIFIED IN RULE 1147. THE REPORT SHALL PRESENT THE EMISSION DATA IN POUNDS PER HOUR, AND PARTS PER MILLION ON A DRY BASIS CORRECTED TO 3% OXYGEN.  
[1147, 1303(a)(1)-BACT , 1303(b)(2)-OFFSET]
11. A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT AT LEAST 14 DAYS PRIOR TO THE SOURCE TESTING DATE SO THAT AN OBSERVER FROM THE DISTRICT MAY BE PRESENT.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]
12. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE SOURCE TESTING DATE UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT. THE SOURCE TEST REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, ALL TESTING DATA REQUIRED BY THIS PERMIT.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]
13. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]
14. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]

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15. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL SUBMIT THE RESULTS OF ALL PRELIMINARY TESTS THAT ARE CONDUCTED ON THIS EQUIPMENT FOR INFORMATIONAL PURPOSES TO THE DISTRICT WITHIN 45 DAYS AFTER THE TESTING DATE UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.  
[1303(a) (1)-BACT, 1303(b) (2)-OFFSET]
16. THIS EQUIPMENT SHALL BE IN FULL OPERATION WHEN THE BASIC EQUIPMENT IT SERVES IS IN OPERATION, EXCEPT DURING MAKE-READY TESTING WHICH TAKES LESS THAN TWO MINUTES PER TEST OR WHEN USING RULE 1128 COMPLIANT COATINGS.  
[RULE 1128, 1303(a)(1)-BACT]
17. DURING THE MANUFACTURE OF SILICON-BASED PRODUCTS, STACK NO. 2 MAY BE VENTED DIRECTLY TO THE ATMOSPHERE, BUT SHALL BE MONITORED FOR VOC WITH A DIGITAL READING DEVICE INDICATING THE LOWER EXPLOSION LIMIT.  
[RULE 1303(a)(1)-BACT]

### **Emissions and Requirements:**

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

VOC: RULE 109  
VOC: RULE 1128, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
NO<sub>x</sub>: 60 PPM, RULE 1147  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC

### RULE 219 EQUIPMENT

#### Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

#### Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):  
FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.  
FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.  
[RULE 3004 (a) (4)]

#### Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE JOHNSON LAMINATING & COATING INC**

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

**Emissions and Requirements:**

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

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS