

## **FACILITY PERMIT TO OPERATE**

**JOHANSON DIELECTRICS INC  
15191 BLEDSOE ST  
SYLMAR, CA 91342**

### **NOTICE**

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By \_\_\_\_\_  
Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

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## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### SECTION A: FACILITY INFORMATION

**LEGAL OWNER &/OR OPERATOR:** JOHANSON DIELECTRICS INC

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 15191 BLEDSOE ST  
 SYLMAR, CA 91342

**MAILING ADDRESS:** 15191 BLEDSOE ST  
 SYLMAR, CA 91342-2700

**RESPONSIBLE OFFICIAL:** ERIC JOHANSON

**TITLE:** CHAIRMAN OF THE BOARD

**TELEPHONE NUMBER:** (818) 364-9800

**CONTACT PERSON:** DANIEL VAQUERA

**TITLE:** ENVIRONMENTAL/HAZARDOUS WASTE

**TELEPHONE NUMBER:** (818) 364-9800

**TITLE V PERMIT ISSUED:** October 01, 2006

**TITLE V PERMIT EXPIRATION DATE:** September 30, 2011

TITLE V	RECLAIM
YES	<b>NOx:</b> NO <b>SOx:</b> NO <b>CYCLE:</b> 0 <b>ZONE:</b> COASTAL

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS 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 JOHANSON DIELECTRICS 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>
283727	F15414	CASTING MACHINE #2
283728	F15413	CASTING MACHINE #3
283729	F15412	CASTING MACHINE #4
283730	F15411	CASTING MACHINE #5
283940	D82408	SOLV RECLAIM STILL (1 STAGE)
284717	D76669	NICKEL AND TIN PLATING LINE
297700	D91800	BAGHOUSE, AMBIENT TEMP
312189	F15407	CASTING MACHINE #6
324190	F15772	NICKEL AND TIN PLATING LINE
341607	F59947	AFTERBURNER, CATALYTIC
433671	F71910	NICKEL AND TIN PLATING LINE
434948	G6678	CATALYTIC AFTERBURNER
477126	G6679	ELECTROSTATIC PRECIP HI VOLT
477128	G6680	CASTING MACHINE #1

**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 JOHANSON DIELECTRICS 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 AMOUNT OF ALL NON-FERROUS METALS MELTED AT THIS FACILITY SHALL NOT EXCEED ONE TON IN ANY ONE YEAR. THE OPERATOR SHALL MAINTAIN RECORDS IN A FORMAT WHICH IS ACCEPTABLE BY THE DISTRICT TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION.  
[RULE 1407]
3. ONLY THE FURNACES UNDER PERMIT NOS. F33926 AND F33928 SHALL PROCESS MATERIALS CONTAINING LEAD OR LEAD COMPOUNDS.  
[RULE 1420]
4. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED AT THE FACILITY FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.  
[RULE 109, 1303(B)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F15414**  
**A/N 283727**

#### **Equipment Description:**

CASTING MACHINE # 2, JOHANSON, ASSET NO. 1843, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. X 32'-2" L. X 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### **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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]
7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
  
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 442

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

Permit No. F15413  
A/N 283728

#### Equipment Description:

CASTING MACHINE # 3, JOHANSON, ASSET NO. 1889, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. X 32'-2" L. X 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### 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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]
7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
  
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC RULE 109  
VOC: RULE 442

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F15412**  
**A/N 283729**

#### **Equipment Description:**

CASTING MACHINE # 4, JOHANSON, ASSET NO. 0673, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. X 32'-2" L. X 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### **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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]
7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 442

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F15411  
A/N 283730**

#### **Equipment Description:**

CASTING MACHINE # 5, JOHANSON, ASSET NO. 1899, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. X 32'-2" L. X 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### **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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]
7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 442

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. D82408**  
**A/N 283940**

#### **Equipment Description:**

SOLVENT RECOVERY STILL, FINISHING THOMPSON, MODEL LS-55-IIID, 3'-4" W. X 6'-3" L. X 5'-0" H.  
(OUTSIDE DIMENSIONS OF STILL), ELECTRICALLY HEATED.

#### **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. THE AMOUNT OF SOLVENT RECOVERED IN THIS EQUIPMENT SHALL NOT EXCEED 1650 GALLONS PER MONTH.  
[RULE 1303(b)(2)-OFFSET]
4. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO VERIFY THE TYPE AND MONTHLY AMOUNT OF SOLVENTS RECOVERED IN THIS EQUIPMENT. SUCH RECORDS SHALL BE RETAINED IN A MANNER ACCEPTABLE BY THE DISTRICT FOR A PERIOD OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. D76669**  
**A/N 284717**

#### **Equipment Description:**

NICKEL AND TIN PLATING LINE CONSISTING OF:

1. FOUR NICKEL PLATING TANKS, BORIC ACID AND NICKEL SULFAMATE, 2'-8" W. X 3'-6" L. X 2'-2" D., EACH WITH A 1/3 HP PUMP AND A 4 KW ELECTRIC HEATER.
2. FOUR TIN PLATING TANKS, 2'-8" W. X 3'-6" L. X 2'-2" D., EACH WITH A 1/3 HP PUMP AND A 4 KW ELECTRIC HEATER.
3. ASSOCIATED RINSE TANKS.

#### **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]

#### **Emissions and Requirements:**

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

HAP(S):           RULE 1426

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. D91800**  
**A/N 297700**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, TENKAY, MODEL AQB 8-60, 8'-0" W. X 7'-6" L. X 7'-6" H., WITH TEN FILTER CARTRIDGES AND 2,400 SQUARE FEET OF FILTER AREA.
2. EXHAUST SYSTEM WITH A 5 HP BLOWER VENTING THE CERAMIC MIXING AREA.

#### **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. A GAUGE SHALL BE MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE CARTRIDGE FILTERS.  
[RULE 1303(a)(1)-BACT]
4. THE PRESSURE DROP ACROSS THE CARTRIDGE FILTERS SHALL NOT EXCEED 3.0 INCHES WATER COLUMN AT ANY TIME DURING THE OPERATION.  
[RULE 1303(a)(1)-BACT]
5. DUST COLLECTED IN THE BAGHOUSE SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.  
[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.

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

[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:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:
- PM: 0 PERCENT OPACITY, RULE 1155
  - PM: RULE 1155
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F15407  
A/N 312189**

#### **Equipment Description:**

CASTING MACHINE # 6, JOHANSON, ASSET NO. 2504, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. X 32'-2" L. X 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### **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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]
7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
  
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 442

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F15772  
A/N 324190**

#### **Equipment Description:**

NICKEL AND TIN PLATING SYSTEM CONSISTING OF:

1. TANK NO. 1, TIN PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.
2. TANK NO. 2, TIN PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.
3. TANK NO. 3, TIN PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.
4. TANK NO. 4, NICKEL PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., 2 KW ELECTRICALLY HEATED, WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.
5. TANK NO. 5, NICKEL PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., 2 KW ELECTRICALLY HEATED, WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.
6. TANK NO. 6, NICKEL PLATING, 1'-3" W. X 1'-5" L. X 1'-5" D., 2 KW ELECTRICALLY HEATED, WITH A 25 VOLTS AND 100 AMPERES RECTIFIER.

#### **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. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC COMPOUNDS AS SPECIFIED DISTRICT RULE 1401 AS AMENDED JULY 1998, EXCEPT NICKEL AND NICKEL COMPOUNDS.  
[RULE 1401]
4. THE OPERATOR SHALL RECORD THE CONCENTRATION OF THE CHEMICAL IN THE TANK DURING REPLENISHMENT. 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 THE EXECUTIVE OFFICER OR HIS REPRESENTATIVES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

5. A TEMPERATURE GAUGE INDICATING DEGREES FAHRENHEIT SHALL BE MAINTAINED IN THIS EQUIPMENT TO MEASURE THE TEMPERATURE OF THE SOLUTION IN THE TANK.  
[RULE 1303(b)(2)-OFFSET]
6. THE TEMPERATURE OF THE SOLUTION IN THE TANK SHALL NOT EXCEED 150 DEGREES FAHRENHEIT.  
[RULE 1303(b)(2)-OFFSET]

### **Periodic Monitoring:**

7. THE OPERATOR SHALL DETERMINE AND RECORD THE TEMPERATURE OF THE SOLUTION IN THE TANK ONCE EVERY DAY.  
[RULE 3004(a)(4)]

### **Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:  
  
HAP(S):           RULE 1426

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F59947  
A/N 341607**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

- A. AFTERBURNER, CATALYTIC OXIDIZER, BAKER FURNACE, 10'-0" W. X 16'-0" L. X 18'-6" H., NATURAL GAS FIRED, 3.0 MMBTU/HR, WITH 4.13 SQ. FT. OF CATALYST.
- B. HEAT EXCHANGER.
- C. 30 H.P. EXHAUST FAN VENTING SIX CASTING MACHINES.

#### **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. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:  
  
THE CATALYST BED INLET TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 700 DEGREES FAHRENHEIT AND THE TEMPERATURE AT THE OUTLET OF THE CATALYST BED SHALL NOT EXCEED 1100 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 TEMPERATURES AT THE INLET AND OUTLET OF THE CATALYST BED PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A TEMPERATURE MEASURING AND RECORDING SYSTEM SHALL HAVE AN ACCURACY OF WITHIN  $\pm 1\%$  OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.  
  
FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN THE CATALYST BED INLET TEMPERATURE OF LESS THAN 700 DEGREES FAHRENHEIT AND A TEMPERATURE OF MORE THAN 1100 DEGREES FAHRENHEIT AT THE OUTLET OF THE CATALYST BED OCCURS DURING THE NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE CATALYST BED INLET AND OUTLET

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

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 ACTIONS TO MAINTAIN THE CATALYST BED INLET TEMPERATURE AT OR ABOVE 700 DEGREES FAHRENHEIT AND THE CATLYST BED OUTLET TEMPERATURE AT OR BELOW 1100 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTIONS 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, SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH AN 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, 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 CONDUCT ACTIVITY TEST FOR THE CATALYST BED ON A SEMI-ANNUAL BASIS. IN ADDITION, 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]

4. THE RECORD OF THE OPERATING TEMPERATURE OF THE AFTERBURNER SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.  
[RULE 1303(a)(1)-BACT]
5. 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 1303(a)(1)-BACT]
6. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC'S SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH. EMISSIONS SHALL BE CALCULATED USING THE COLLECTION AND DESTRUCTION EFFICIENCY SPECIFIED IN THE PERMIT FOR THE AIR POLLUTION CONTROL SYSTEM.  
[RULE 1303(b)(2)-OFFSET]
7. NO MORE THAN 6 CASTING MACHINES SHALL BE OPERATED AND VENTED, AT ANY TIME, TO THIS AFTERBURNER.  
[RULE 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### Periodic Monitoring:

8. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS.
  - B. THE TEST SHALL BE CONDUCTED NO LATER THAN OCTOBER 1, 2015 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 AFTERBURNER IS OPERATING AT THE TEMPERATURES SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS DIFFERENT THAN THE TEMPERATURES SPECIFIED IN THIS PERMIT, THE TEMPERATURES SPECIFIED IN THIS PERMIT MAY BE CHANGED 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.
  - F. THE OPERATOR SHALL SUBMIT TWO COMPLETE COPIES OF THE SOURCE TEST REPORT SPECIFIED IN CONDITION NO. 9 OF SECTION E OF THIS FACILITY PERMIT TO THE DISTRICT ENGINEERING AND COMPLIANCE DIVISION. THE ENGINEERING COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, COATING, PRINTING AND AEROSPACE OPERATIONS, ATTN: AIR QUALITY AND COMPLIANCE SUPERVISOR, 21865 COPLEY DRIVE, DIAMOND BAR, CA 91765. THE COMPLIANCE COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765.
- [RULE 3004(a)(4)]

### Emissions and Requirements:

9. 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 PPM, RULE 407
  - NOx: 60 PPMV, RULE 1147

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. F71910  
A/N 433671**

#### **Equipment Description:**

ELECTROPLATING (NICKEL AND TIN) LINE CONSISTING OF:

1. NICKEL PLATING TANK NO. 21, BORIC ACID, NICKEL CHLORIDE, AND NICKEL SULFAMATE, 2'-4" W. X 2'-2" L. X 1'-10" D., WITH ONE 4-KW ELECTRIC HEATER AND ONE 100-AMP, 25-VOLT RECTIFIER.
2. NICKEL PLATING TANK NO. 22, BORIC ACID, NICKEL CHLORIDE AND NICKEL SULFAMATE, 1'-3" W. X 1'-5" L. X 1'-5" D., WITH ONE 4-KW ELECTRIC HEATER AND ONE 100-AMP, 25-VOLT RECTIFIER.
3. TIN PLATING TANK NO. 1, TIN SOLUTION, 2'-4" W. X 2'-2" L. X 1'-10" D., UNHEATED, WITH ONE 100-AMP, 25-VOLT RECTIFIER.
4. TIN PLATING TANK NO. 2, TIN SOLUTION, 1'-3" W. X 1'-5" L. X 1'-5" D., UNHEATED, WITH ONE 100-AMP, 25-VOLT RECTIFIER.
5. ASSOCIATED RINSE TANKS.

#### **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. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MAY 2, 2003 OR EARLIER, EXCEPT NICKEL AND NICKEL COMPOUNDS.  
[RULE 1401]
4. THE OPERATOR SHALL RECORD THE CONCENTRATION OF THE CHEMICAL IN THE TANK AND CHEMICAL ADDED DURING REPLENISHMENT. 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 THE EXECUTIVE OFFICER OR HIS REPRESENTATIVES.  
[RULE 109, 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

5. A TEMPERATURE GAUGE INDICATING DEGREES FAHRENHEIT SHALL BE MAINTAINED IN EACH NICKEL PLATING TANK TO MEASURE THE TEMPERATURE OF THE SOLUTION IN THE TANK.  
[RULE 1303(b)(2)-OFFSET]
6. THE TEMPERATURE OF THE SOLUTION IN EACH NICKEL PLATING TANK SHALL NOT EXCEED 150 DEGREES FAHRENHEIT.  
[RULE 1303 (b)(2)-OFFSET]
7. THE OPERATOR SHALL NOT CONDUCT ANY SPARGING OPERATIONS IN THIS EQUIPMENT.
8. THIS PERMIT SHALL EXPIRE IF THE CONSTRUCTION OF THIS EQUIPMENT IS NOT COMMENCED BY NOVEMBER 12, 2005 UNLESS EXTENSION OF TIME HAS BEEN APPROVED IN WRITING BY A DISTRICT REPRESENTATIVE.  
[RULE 205]

### **Periodic Monitoring:**

9. THE OPERATOR SHALL DETERMINE AND RECORD THE TEMPERATURE OF THE SOLUTION IN THE TANK ONCE EVERY DAY.  
[RULE 3004(a)(4)]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:  
  
HAP(S):           RULE 1426

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

Permit No. G6678  
A/N 434948

#### Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. AFTERBURNER, CATALYTIC, BAKER, 2,500,000 BTU PER HOUR, NATURAL GAS FIRED.
2. EXHAUST SYSTEM WITH ONE 15 HP EXTRACTION BLOWER VENTING A PTE WITH SIX CASTING MACHINES FOR VOC CONTROL (BACK-UP), OR VENTING TERMINATION OVENS AND A BOTTLE CLEANING HOOD FOR ODOR CONTROL.

#### 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. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:  
  
THE CATALYST BED INLET TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 700 DEGREES FAHRENHEIT AND THE TEMPERATURE AT THE OUTLET OF THE CATALYST BED SHALL NOT EXCEED 1100 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 TEMPERATURES AT THE INLET AND OUTLET OF THE CATALYST BED PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A TEMPERATURE MEASURING AND RECORDING SYSTEM SHALL HAVE AN ACCURACY OF WITHIN  $\pm 1\%$  OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.  
  
FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN THE CATALYST BED INLET TEMPERATURE OF LESS THAN 700 DEGREES FAHRENHEIT AND A TEMPERATURE OF MORE THAN 1100 DEGREES FAHRENHEIT AT THE OUTLET OF THE CATALYST BED OCCURS DURING THE NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE CATALYST BED INLET AND OUTLET

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

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 ACTIONS TO MAINTAIN THE CATALYST BED INLET TEMPERATURE AT OR ABOVE 700 DEGREES FAHRENHEIT AND THE CATALYST BED OUTLET TEMPERATURE AT OR BELOW 1100 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTIONS 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, 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, 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 CONDUCT ACTIVITY TEST FOR THE CATALYST BED ON A SEMI-ANNUAL BASIS. IN ADDITION, 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]

4. THE RECORD OF THE OPERATING TEMPERATURE OF THE AFTERBURNER SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.  
[RULE 1303(a)(1)-BACT]
5. 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 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES COMBINED, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH. 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 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

7. THIS CATALYTIC AFTERBURNER SHALL SERVE THE TERMINATION OVENS AND BOTTLE CLEANING SYSTEM FOR ODOR CONTROL AS NECESSARY, OR AS A BACKUP SYSTEM FOR THE SIX CASTING MACHINES WHEN THE PRIMARY AFTERBURNER IS DOWN.  
[RULE 1303 (b)(2)-OFFSET]

### Periodic Monitoring:

8. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS.
  - B. THE TEST SHALL BE CONDUCTED NO LATER THAN OCTOBER 1, 2015 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 AFTERBURNER IS OPERATING AT THE TEMPERATURES SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS DIFFERENT THAN THE TEMPERATURES SPECIFIED IN THIS PERMIT, THE TEMPERATURES SPECIFIED IN THIS PERMIT MAY BE CHANGED 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.
  - F. THE OPERATOR SHALL SUBMIT TWO COMPLETE COPIES OF THE SOURCE TEST REPORT SPECIFIED IN CONDITION NO. 9 OF SECTION E OF THIS FACILITY PERMIT TO THE DISTRICT ENGINEERING AND COMPLIANCE DIVISION. THE ENGINEERING COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, COATING, PRINTING AND AEROSPACE OPERATIONS, ATTN: AIR QUALITY AND COMPLIANCE SUPERVISOR, 21865 COPLEY DRIVE, DIAMOND BAR, CA 91765. THE COMPLIANCE COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765.
- [RULE 3004(a)(4)]

### Emissions and Requirements:

9. 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 PPM, RULE 407
  - NOx: 60 PPMV, RULE 1147

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. G6679**  
**A/N 477126**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM, CONSISTING OF:

1. ELECTROSTATIC PRECIPITATOR, FIBER-DYNE, INC., MODEL NO. ESP 2, 5'-6" DIA. X 12'-8" H.
2. EXHAUST SYSTEM WITH ONE 5 HP EXHAUST BLOWER VENTING SIXTEEN RULE 219 EXEMPT OVENS.

#### **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. ALL COMPONENTS OF THIS EQUIPMENT SHALL BE CLEANED ON A MONTHLY BASIS.  
[RULE 1303(a)(1)-BACT]
4. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3.  
[RULE 1303(a)(1)-BACT]

#### **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 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:

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

- 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:**

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### PERMIT TO OPERATE

**Permit No. G6680**  
**A/N 477128**

#### **Equipment Description:**

CASTING MACHINE # 1, JOHANSON, ASSET NO. 1801, CONTINUOUS BELT-DRIVE TYPE, 2'-0" W. x 38'-0" L. x 5'-5" H., 7.4 KW ELECTRICALLY HEATED, WITH A 1/3-HP CONVEYOR BELT.

#### **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 AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
4. SOLVENT USED IN THE CERAMIC LIQUID SUSPENSIONS, CLEAN-UP SOLVENT, AND ANY OTHER MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED ON DECEMBER 7, 1990.  
[RULE 1401]
5. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE CASTING MACHINES COMBINED, RESULTING FROM THE USE OF MATERIALS CONTAINING VOC, SHALL NOT EXCEED 3930 POUNDS IN ANY CALENDAR MONTH. 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 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL COMPLY WITH RULE 109 (RECORD KEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS).  
[RULE 109]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

7. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCY AND / OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.  
[RULE 109, 1303(b)(2)-OFFSET]
8. THE OPERATOR SHALL 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.  
[RULE 109, 1303(b)(2)-OFFSET]
9. THE OPERATOR SHALL 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, FOR 5 YEARS.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Emissions and Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
VOC: RULE 109  
VOC: RULE 442

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**PERMIT TO CONSTRUCT**

NONE

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS 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:

2. 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 JOHANSON DIELECTRICS 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  
VOC: RULE 109

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **RULE 219 EQUIPMENT**

RULE 219 EXEMPT EQUIPMENT, SCREEN PRINTING EQUIPMENT, LOW USE OR EMISSIONS.

#### **Emissions and Requirements:**

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

VOC: RULE 1130.1, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 109

# **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

## **RULE 219 EQUIPMENT**

### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL UNHEATED, NON-CONVEYORIZED

### **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

VOC: RULE 109

# **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

## **RULE 219 EQUIPMENT**

### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS

### **Emissions and Requirements:**

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

REFRIGERANT: RULE 1415  
REFRIGERANT: 40CFR 82 SUBART F

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

**Emissions and Requirements:**

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

PM: 0.1 gr/scf, RULE 409  
NOx: 30 PPMV, RULE 1146.2  
CO: 400 PPMV, RULE 1146.2  
CO: 2000 PPMV, RULE 407

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
  - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
  - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
  - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statues of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
  - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
  - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

- b. Brief description of the equipment tested.
  - c. Operating conditions under which the test was performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Field and laboratory data forms, strip charts and analyses.
  - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
  11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR  
RECLAIM SOURCES**

**NOT APPLICABLE**

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

See Section D of this permit for any Permit to Construct issued to this facility.

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION I: PLANS AND SCHEDULES**

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans .

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

#### List of approved plans:

Application	Rule
324508	1420
338986	480

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

SECTION J: AIR TOXICS

NOT APPLICABLE

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration**

#### **GENERAL PROVISIONS**

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

#### **Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### **Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

#### **Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration**

#### **Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
  - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
  - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

#### **COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
  - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration**

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
  - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
  - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
  
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
  
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
  
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
  
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration**

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
  - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
  - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
  - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
  - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
  - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration EMERGENCY PROVISIONS**

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
    - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
    - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
    - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
    - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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<sup>1</sup> "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
  - (B) The date(s) analyses were performed;
  - (C) The company or entity that performed the analyses;
  - (D) The analytical techniques or methods used;
  - (E) The results of such analyses; and
  - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

### **REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
  - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
  - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **SECTION K: TITLE V Administration**

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:  
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

### **PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### SECTION K: TITLE V Administration

#### *FACILITY RULES*

*This facility is subject to the following rules and regulations*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 109	5-2-2003	Federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1130.1	12-13-1996	Federally enforceable
RULE 1146.2	5-5-2006	Federally enforceable
RULE 1147	12-5-2008	Non federally enforceable
RULE 1155	12-4-2009	Non federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	12-7-1990	Non federally enforceable
RULE 1401	5-2-2003	Non federally enforceable
RULE 1401	5-3-2002	Non federally enforceable
RULE 1401	7-10-1998	Non federally enforceable
RULE 1407	7-8-1994	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 1420	9-11-1992	Non federally enforceable
RULE 1426	5-2-2003	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 219	6-1-2007	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3002	11-5-2010	Non federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	5-6-2011	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 442	12-15-2000	Federally enforceable
RULE 480	10-7-1977	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable
40CFR Part 64	10-22-1997	Federally enforceable

**FACILITY PERMIT TO OPERATE  
JOHANSON DIELECTRICS INC**

APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN  
PERMIT PURSUANT TO RULE 219

NONE

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

### TABLE OF STANDARDS

#### VOC LIMITS

#### Grams of VOC Per Liter of Coating, Less Water And Less Exempt Compounds

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

\* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

### TABLE OF STANDARDS (cont.)

#### VOC LIMITS

#### Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]**

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
  - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
  - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

#### TABLE OF STANDARDS 1 VOC LIMITS

**Grams of VOC Per Liter of Coating,  
 Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges <sup>3</sup>		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100		50
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

#### TABLE OF STANDARDS 1 (cont.) VOC LIMITS

##### Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

#### TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

##### Grams of VOC Per Liter of Colorant Less Water and Less Exempt Compounds

COLORANT	Limit <sup>4</sup>
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

## **FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC**

### **APPENDIX B: RULE EMISSION LIMITS [RULE 1130.1 12-13-1996]**

Except as otherwise provided in Rule 1130.1

(1) VOC Content of Screen Printing Materials

The operator shall not apply to any substrate any screen printing material, excluding extreme performance screen printing materials, which contains, as applied, a total amount of VOC in excess of the limits specified in subparagraphs (1)(A), (1)(B), or (1)(C). The applicable VOC limit for a screen printing operation shall be determined by first looking for the product in subparagraph (1)(A). If the product is not listed in subparagraph (1)(A), look for the product's substrate in subparagraph (1)(B). If the substrate is not listed in subparagraph (1)(B), look for the applicable limit in subparagraph (1)(C).

In lieu of meeting the requirements in subparagraph (1)(C), the operator may comply with the requirements in paragraph (2) if the screen printing material qualifies for an extreme performance classification under subdivision (e) of Rule 1130.1.

(A) For screen printing coatings and inks used in the production of the following products:

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1130.1 12-13-1996]

#### VOC LIMIT

grams per Liter of  
 Coating

**PRODUCT** (or Ink), Less water and  
Less Exempt  
Compounds

On and After  
December 13, 1996

	<u>g/L-</u>	<u>lbs/gal-</u>
Chlorine Indicator	500	4.2
Containers	800	6.7
Electronic Circuit	850	7.1
Mechanically- Formed Products	800	6.7
Overlays	800	6.7
Polyethylene Products	800	6.7
Stained Glass Overlay	800	6.7
Sterilization Indicator	600	5.0
Sub-Printed Products	800	6.7
Water Slide Decals:		
Opaque Inks	800	6.7
Clear Inks	800	6.7
Ceramic Decal Inks	800	6.7

- (B) For screen printing coatings and inks not regulated by subparagraph (1)(A) and which are applied to the following specified substrates:

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1130.1 12-13-1996]

#### VOC LIMIT

grams per Liter of Coating  
 (or Ink), Less water  
 and Less Exempt  
Compounds

**SUBSTRATE**

On and After  
December 13, 1996

	<u>g/L</u>	<u>lbs/gal</u>
Ceramic	800	6.7
Fiberglass	600	5.0
Glass or Metal	600	5.0
Man-Made Textile	800	6.7
Unsealed Aluminum	800	6.7

If a substrate is regulated under more than one substrate category listed in subparagraph (1)(B), the category with the highest VOC limit shall apply.

- (C) For screen printing materials not regulated by the provisions in subparagraph (1)(A) or (1)(B), which have the following material classifications:

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1130.1 12-13-1996]

<u>SCREEN PRINTING MATERIAL</u>	<b>VOC LIMIT</b> grams per Liter of Coating (or Ink or Adhesive), Less water and <u>Less Exempt</u> <u>Compounds</u>	
	<u>On and After</u> <u>December 13, 1996</u>	
	<u>g/L</u>	<u>lbs/gal</u>
Adhesive	400	3.3
Coating	400	3.3
Fine Detail Loose-leaf Binder Ink	745	6.2
Fluorescent Ink	540	4.5
High-VOC Serigraph Ink	800	6.7
Loose-leaf Binder Metallic Ink	745	6.2
Metallic Ink	400	3.3
Printing Ink	400	3.3
Resists	600	5.0
Scratch-Off Ink	800	6.7
Water-Slide Decal Adhesive	800	6.7

If a screen printing material is regulated under more than one screen printing material category listed in subparagraph (1)(C), the category with the highest VOC limit shall apply.

(2) **VOC Content of Extreme Performance Screen Printing Materials**

The operator shall not apply any extreme performance screen printing material in excess of the limits specified below:

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1130.1 12-13-1996]

#### VOC LIMIT Grams of VOC per Liter of ExtremePerformance Screen Printing Material, Less Water and Less Exempt Compounds

	<u>g/L</u>	<u>lbs/gal</u>
On and after July 9, 1993	800	6.7
On and after January 1, 2003	400	3.3

(3) Usage of High-VOC Serigraph Inks

The total usage of high-VOC serigraph inks, as defined in paragraph (b)(23) of Rule 1130.1, shall not exceed 10 percent, (by volume), of the total usage of screen printing materials applied on all serigraphs at a facility, on a monthly basis, unless an approved emission control system is used to reduce emissions from high-VOC serigraph inks by an equivalent or greater level to that which would have been achieved by the use of an ink containing 3.3 pounds per gallon VOC (less water and exempt compounds). The required overall control efficiency of the emission control system shall be determined by the equation in paragraph (d)(1) of Rule 1130.1.

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

\* The specified limits remain in effect unless revised limits are listed in subsequent columns.

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter” Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 405(a)**

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
		Kilograms Per Hour	Pounds Per Hour			Kilograms Per Hour	Pounds Per Hour
100 or less	220 or less	0.450	0.99	9000	19840	5.308	11.7
150	331	0.585	1.29	10000	22050	5.440	12.0
200	441	0.703	1.55	12500	27560	5.732	12.6
250	551	0.804	1.77	15000	33070	5.982	13.2
300	661	0.897	1.98	17500	38580	6.202	13.7
350	772	0.983	2.17	20000	44090	6.399	14.1
400	882	1.063	2.34	25000	55120	6.743	14.9
450	992	1.138	2.51	30000	66140	7.037	15.5
500	1102	1.209	2.67	35000	77160	7.296	16.1
600	1323	1.340	2.95	40000	88180	7.527	16.6

## FACILITY PERMIT TO OPERATE JOHANSON DIELECTRICS INC

### APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour
700	1543	1.461	3.22	45000	99210	7.738	17.1
800	1764	1.573	3.47	50000	110200	7.931	17.5
900	1984	1.678	3.70	60000	132300	8.277	18.2
1000	2205	1.777	3.92	70000	154300	8.582	18.9
1250	2756	2.003	4.42	80000	176400	8.854	19.5
1500	3307	2.206	4.86	90000	198400	9.102	20.1
1750	3858	2.392	5.27	100000	220500	9.329	20.6
2000	4409	2.563	5.65	125000	275600	9.830	21.7
2250	4960	2.723	6.00	150000	330700	10.26	22.6
2500	5512	2.874	6.34	175000	385800	10.64	23.5
2750	6063	3.016	6.65	200000	440900	10.97	24.2
3000	6614	3.151	6.95	225000	496000	11.28	24.9
3250	7165	3.280	7.23	250000	551200	11.56	25.5
3600	7716	3.404	7.50	275000	606300	11.82	26.1
4000	8818	3.637	8.02	300000	661400	12.07	26.6
4500	9921	3.855	8.50	325000	716500	12.30	27.1
5000	11020	4.059	8.95	350000	771600	12.51	27.6
6000	13230	4.434	9.78	400000	881800	12.91	28.5
7000	15430	4.775	10.5	450000	992100	13.27	29.3
8000	17640	5.089	11.2	500000 or more	1102000 or more	13.60	30.0