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ENGINEERING DIVISION

APPLICATION PROCESSING AND CALCULATIONS

Equipment**Location at:**

Quebecor World Great Western Publishing
6688 Box Springs Blvd
Riverside, CA 92507
Facility ID# 132368

FACILITY WIDE CONDITION(S)**Condition(s):**

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

2. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS DISCHARGED TO THE ATMOSPHERE FROM ALL PERMITTED EQUIPMENT AND ASSOCIATED OPERATIONS AT THIS FACILITY SHALL NOT EXCEED 7800 POUNDS IN ANY CALENDAR MONTH. ASSOCIATED OPERATIONS INCLUDE, BUT NOT LIMITED TO EQUIPMENT CLEAN-UP, AND THE APPLICATION OF ANY OTHER VOC CONTAINING MATERIALS TO ARTICLES THAT ARE PROCESSED IN THE PERMITTED EQUIPMENT. FOR EQUIPMENT THAT IS VENTED TO AIR POLLUTION CONTROL (APC) SYSTEM, THE VOC EMISSIONS FROM INKS SHALL BE CALCULATED USING THE REQUIRED CONTROL EFFICIENCY SPECIFIED IN THE PERMIT FOR THE APC SYSTEM.
[RULE 1303(b)(2)-OFFSET]

3. THE TOTAL QUANTITY OF OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED TO THE ATMOSPHERE FROM ALL PERMITTED EQUIPMENT AND ASSOCIATED OPERATIONS AT THIS FACILITY SHALL NOT EXCEED 667 POUNDS IN ANY CALENDAR MONTH. THE NO_x EMISSIONS SHALL BE CALCULATED USING AN EMISSION FACTOR OF 38.5 LB NO_x PER 10⁶ CUBIC FEET OF NATURAL GAS (BASED ON 30 PPM @ 3 % O₂) FOR THE DRYING OVENS AND 100 LB NO_x PER 10⁶ CUBIC FEET OF NATURAL GAS (BASED ON 78 PPM @ 3% O₂) FOR THE THERMAL OXIDIZERS.
[RULE 1303(b)(2)-OFFSET]

4. 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 1303(b)(2)-OFFSET]

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5. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE REQUIREMENTS OF RULE 109 (RECORDKEEPING FOR VOLATILE ORGANIC COMPOUND EMISSIONS). SUCH RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]

6. 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 EFFICIENCIES AND/OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST-RANKING MANAGEMENT OFFICIAL WITH RESPONSIBILITY FOR OPERATION OF EQUIPMENT SUBJECT TO THE PERMIT.
[RULE 1303 (b)(2)- OFFSET]

7. 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 1303(b)(2)-OFFSET]

8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS FACILITY FOR THE FOLLOWING:
- A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

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 A VAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE
[RULE 109, 1303(b)(2)-OFFSET]

9. MATERIAL SAFETY DATA SHEETS FOR THE MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)- OFFSET]

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10. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, THE OPERATOR SHALL TOTAL AND RECORD NO_x EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS COVERED BY THE MONTHLY LIMIT. THE RECORD SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST-RANKING MANAGEMENT OFFICIAL WITH RESPONSIBILITY FOR OPERATION OF EQUIPMENT SUBJECT TO THE PERMIT.
[RULE 1303 (b)(2)- OFFSET]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETIBLE TOTALIZING FUEL METER TO ACCURATELY INDICATE THE FUEL USAGE OF ALL DRYING OVENS IN THE FACILITY.
[RULE 1303(b)(2)-OFFSET]
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETIBLE TOTALIZING FUEL METER TO ACCURATELY INDICATE THE FUEL USAGE OF ALL THERMAL OXIDIZERS IN THE FACILITY.
[RULE 1303(b)(2)-OFFSET]

Title V Permit Revision:

Application No. 493462

Modification/Change of Permit Condition

Application No. 493460(Previous A/N 466987)

Equipment Description:

LITHOGRAPHIC PRINTING SYSTEM NO. 707., CONSISTING OF:

1. LITHOGRAPHIC PRINTING PRESS, GOSS, MODEL NO. C-700, WEB-FED, 4 X 4 COLOR, 35" WIDTH, 400 HP TOTAL.
2. OVEN, MEGTEC, MODEL NO. ~~ICP39168~~ THERMO FOIL ATLAS ~~3806E-X72~~, 34'-8 9" L. X 7 8'-3 0" W. X 8 4'-0 6" H., WITH TWO 3,230,000 BTU PER HOUR NATURAL GAS FIRED MAXON EB3MRV LOW NO_x BURNERS, WITH TWO 10 HP COMBUSTION AIR BLOWERS, TWO 100-HP RECIRCULATION FANS, AND TWO 10-HP EXHAUST FAN.
3. CHILL ROLL UNIT.

Conditions:

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

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2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE OVEN IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS DISCHARGED TO THE ATMOSPHERE FROM THIS EQUIPMENT SHALL NOT EXCEED 900 POUNDS IN ANY CALENDAR MONTH. THE VOC EMISSIONS SHALL BE CALCULATED USING THE REQUIRED CONTROL EFFICIENCY SPECIFIED IN THE PERMIT FOR THE APC SYSTEM.
[RULE 212(c)(2)]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MARCH 4, 2005 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER (CAS NO. 111-76-2), ETHYLENE GLYCOL (CAS NO. 107-21-1), AND NAPHTHALENE (CAS NO. 91-20-3).
[RULE 1401]
6. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 MM HG AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
7. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]
8. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]
9. IN ADDITION TO RECORDKEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
 - A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

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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 A VAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

[RULE 109, 1303(b)(2)-OFFSET]

~~10. UPON COMPLETION OF CONSTRUCTION AND OPERATION OF THIS EQUIPMENT, THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER AQMD PERMIT NOS. F68628 AND F68187, AND SHALL SURRENDER THE PERMITS TO THE AQMD.~~

~~[RULE 1303(b)(2)-OFFSET]~~

10. THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER APPLICATION NOS. 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.

[RULE 1303(b)(2)-OFFSET]

Emissions And Requirements:

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

- VOC: RULE 109
- VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS
- VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
- CO: 2000 PPMV, RULE 407
- NOx: 30 PPMV, RULE 1303(a)(1)-BACT
- PM: 0.1 GR/SCF, RULE 409
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Modification

Add existing presses to the exhaust of the oxidizer

Application No. 493461(Previous A/N 466988)

Equipment Description:

MODIFICATION TO AIR POLLUTION CONTROL SYSTEM NO.1 (PERMIT NO. F68629), CONSISTING OF:

1. THERMAL OXIDIZER, REGENERATIVE TYPE, ADVANTAGE ENERGY GROUP, MODEL PREMIER-30, 63'-0" L. X 24'-0" W. X 12'-0" H., 30,000 SCFM CAPACITY, WITH AN 8.6 MMBTU/HR BURNER, A 4.5 MMBTU/HR GAS INJECTION SYSTEM, TWO CERAMIC BEDS (19'-0" L. X 10'-0" W. X 4'-0" H. EACH), A 20 HP COMBUSTION BLOWER AND A COIL MEDIA HEAT EXCHANGER.
2. EXHAUST SYSTEM WITH A 34'-0" HIGH STACK AND ONE 200 HP FAN VENTING EIGHT LITHOGRAPHIC PRINTING OVENS.

BY THE ADDITION OF:

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3. THERMAL OXIDIZER, REGENERATIVE TYPE, LANGBEIN & ENGELBRACHT AMERICA, MODEL NO. TR1595C, SERIAL NO. 1062-06, 16'-4" W. X 40'-6" L. X 17'-9" H., 15,000 SCFM CAPACITY, WITH TWO 8'-8" W. X 8'-8" L. X 5'-0" H. CERAMIC BEDS, ONE 3,000,000 MAXON KINEMAX 3-KM BURNER, AND ONE 1.2 HP COMBUSTION BLOWER.
4. EXHAUST SYSTEM WITH A 30'-0" H. EXHAUST STACK AND ONE 150 HP FAN VENTING ~~SEVEN~~ TEN LITHOGRAPHIC PRINTING OVENS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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 THE THERMAL OXIDIZERS ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE COMBUSTION CHAMBER TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,550 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

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

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A COMBUSTION CHAMBER TEMPERATURE OF LESS THAN 1,550 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE COMBUSTION CHAMBER TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE COMBUSTION CHAMBER TEMPERATURE AT OR ABOVE 1,550 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN

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SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

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

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

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)-PERIODIC MONITORING, 40CFR PART 64]

4. THE TEMPERATURE INDICATING AND RECORDING SYSTEM SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
5. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT TO ACHIEVE DESTRUCTION EFFICIENCY OF AT LEAST 99 % BY WEIGHT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT TO ACHIEVE AN OVERALL CONTROL EFFICIENCY OF AT LEAST 98.5 %.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
7. BOTH THERMAL OXIDIZERS SHALL BE IN FULL OPERATION WHENEVER THE BASIC EQUIPMENT THEY SERVE IS IN OPERATION.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
8. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 78 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 60 CONSECUTIVE MINUTES.
[RULE 1303(b)(2)-OFFSET]
9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. THE SOURCE TESTS SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.

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- B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT. THE TEST PROTOCOL SHALL BE APPROVED IN WRITING BY THE DISTRICT BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE COMPLETED DISTRICT FORMS ST-1 AND ST-2 SPECIFYING THE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING IT MEETS THE CRITERIA IN DISTRICT RULE 304(k), AND A DESCRIPTION OF THE SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
- C. THE SOURCE TESTS SHALL CONSIST OF, BUT MAY NOT BE LIMITED TO, TESTING AT THE INLET AND THE EXHAUST OF THE AFTERBURNERS FOR:
- (1) VOLATILE ORGANIC COMPOUND (VOC) IN PPMV AND LBS/HR
 - (2) OXIDES OF NITROGEN (AFTERBURNERS EXHAUST ONLY)
 - (3) CARBON MONOXIDE (AFTERBURNERS EXHAUST ONLY)
 - (4) VOC DESTRUCTION EFFICIENCY
 - (5) VOC COLLECTION EFFICIENCY
 - (6) USAGE OF ALL VOC-CONTAINING MATERIALS DURING THE TEST
 - (7) OXYGEN CONTENT
 - (8) MOISTURE CONTENT
 - (9) FLOW RATE
 - (10) TEMPERATURE
- D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT AT LEAST 14 DAYS PRIOR TO SOURCE TESTING DATE SO THAT AN OBSERVER FROM THE DISTRICT MAY BE PRESENT.
- E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE SOURCE TESTING DATE. THE SOURCE TEST REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO ALL TESTING DATA REQUIRED BY THIS CONDITION.
- F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
- G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

Periodic Monitoring:

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10. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.
 - B. THE TEST SHALL BE CONDUCTED NO LATER THAN JULY 31, 2011 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 OXIDIZER IS OPERATING AT A TEMPERATURE OF NOT LESS THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS GREATER THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT, THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT MAY BE INCREASED TO REFLECT THE OPERATING TEMPERATURE DURING THE SOURCE TEST.
 - E. THE OPERATOR SHALL COMPLY WITH ADMINISTRATIVE CONDITIONS NOS. 8, 9, AND 10 OF SECTION E OF THIS FACILITY PERMIT.
 - 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:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPMV, RULE 407
 - PM: 0.1 GR/SCF, RULE 409
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOx: 78 PPMV, RULE 1303(b)(2)-OFFSET

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To split the permit unit into two separate permit unitsApplication No. 493465(Previous P/O F68188, A/N 401093)**Equipment Description:**

LITHOGRAPHIC PRINTING SYSTEM NO. 3A CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-500 , SERIAL NO. C506029B, 4-COLOR, 40-INCH WEB WIDTH, 200 HP TOTAL.
2. OVEN, MEGTEC, MODEL TF 1900 (2) 40, SERIAL NO. T/E 91-4433, NATURAL GAS FIRED, 8'-0" W. x 19'-0" L. x 4'- 6" H., WITH TWO MAXON 1.6 MM BTU PER HOUR (EACH) LOW NO_x BURNERS, A 10-HP COMBUSTION AIR BLOWER, A 120 HP CIRCULATION FAN, AND A 10 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

Reissue Previous P/O R-F68188, A/N 401093)**Equipment Description:**

LITHOGRAPHIC PRINTING SYSTEM NO. 3B CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-500 , SERIAL NO. C506029B, 4-COLOR, 40-INCH WEB WIDTH, 200 HP TOTAL.
2. OVEN, MEGTEC, MODEL TF 1900 (2) 40, SERIAL NO. T/E 91-4433, NATURAL GAS FIRED, 8'-0" W. x 19'-0" L. x 4'- 6" H., WITH TWO MAXON 1.6 MM BTU PER HOUR (EACH) LOW NO_x BURNERS, A 10-HP COMBUSTION AIR BLOWER, A 120 HP CIRCULATION FAN, AND A 10 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

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 THE OVEN IS VENTED TO AIR POLLUTION CONTROL SYSTEM WICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303 (a)(1)-BACT]
4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF

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MAY 3, 2002 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER, ETHYLENE GLYCOL, AND NAPHTHALENE.
[RULE 1401]

5. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 mm Hg AT 68 DEGREES FAHRENHEIT.
[RULE 1303 (a)(1)-BACT]
6. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303 (a)(1)-BACT]
7. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303 (a)(1)-BACT]
8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
 - A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

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 REPRESENTATIVE.
[RULE 109, 1303(b)(2)-OFFSET]

Emissions And Requirements:

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

VOC: RULE 109
VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Change of Condition

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Remove condition No. 9 and add restriction to operate new press

Application No. 493466(Previous Permit F68628, A/N 401090)

Equipment Description:

LITHOGRAPHIC PRINTING SYSTEM NO. 1 CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-150 MAGNUM CLASS, SERIAL NO. C15-5006, 4-COLOR, 35-INCH WEB WIDTH, 100 HP TOTAL.
2. OVEN, TEC MODEL NO. 1-VC-135-40, SERIAL NO. 102125, NATURAL GAS FIRED, 7'-3" W. X 11'-3" L. X 4'-0" H., WITH A MAXON 1.6 MM BTU PER HOUR LOW NO_x BURNER, A 5 HP COMBUSTION AIR BLOWER, A 40 HP CIRCULATION FAN, AND A 5 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

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 THE OVEN IS VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MAY 3, 2002 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER, ETHYLENE GLYCOL, AND NAPHTHALENE.
[RULE 1401]
5. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 mm Hg AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
6. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]

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7. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]

8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
 - A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

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 REPRESENTATIVE.
[RULE 109, 1303(b)(2)-OFFSET]

- ~~9. THIS EQUIPMENT SHALL BE REMOVED FROM SERVICE WHEN THE EQUIPMENT UNDER APPLICATION NO. 466987 BECOMES FULLY OPERATIONAL.
[RULE 1303(b)(2)-OFFSET]~~

9. THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER APPLICATION NOS. 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.
[RULE 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 1130, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
 - NO_x: 30 PPMV, RULE 1303(a)(1)-BACT
 - CO: 2000 PPMV, RULE 407
 - PM: 0.1 GR/SCF, RULE 409
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Remove condition No. 9 and add restriction to operate new press

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Application No. 493467(Previous Permit F68187, A/N 401091)

Equipment Description:

LITHOGRAPHIC PRINTING SYSTEM NO. 2 CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-150 MAGNUM CLASS, SERIAL NO. C15-5009, 4-COLOR, 35-INCH WEB WIDTH, 100 HP TOTAL.
2. OVEN, TEC MODEL NO. 1-VC-135-40, SERIAL NO. 102137, NATURAL GAS FIRED, 7'-3" W. X 11'-3" L. X 4'-0" H., WITH A MAXON 1.6 MM BTU PER HOUR LOW NO_x BURNER, A 5 HP COMBUSTION AIR BLOWER, A 40 HP CIRCULATION FAN, AND A 5 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

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 THE OVEN IS VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MAY 3, 2002 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER, ETHYLENE GLYCOL, AND NAPHTHALENE.
[RULE 1401]
5. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 mm Hg AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
6. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]
7. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]

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8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
- A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

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 REPRESENTATIVE.
[RULE 109, 1303(b)(2)-OFFSET]

- ~~9. THIS EQUIPMENT SHALL BE REMOVED FROM SERVICE WHEN THE EQUIPMENT UNDER APPLICATION NO. 466987 BECOMES FULLY OPERATIONAL.
[RULE 1303(b)(2)-OFFSET]~~
9. THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER APPLICATION 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.
[RULE 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 1130, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
 - NO_x: 30 PPMV, RULE 1303(a)(1)-BACT
 - CO: 2000 PPMV, RULE 407
 - PM: 0.1 GR/SCF, RULE 409
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Background

This is a Title V (non-RECLAIM) facility. A title V renewal permit was issued to this facility on August 1, 2007. The company submitted the following applications on December 2, 2008 for modifications and/or change of permit conditions to the permits to

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construct and permits to operate included into the Title V revision permit issued to this facility on August 7, 2007:

Equipment	Application Number	Previous Application	Previous Permit No	Permit Action	Requested Change
Lithographic Heatset printing press	493460	466987		Modification/ change of condition	Change oven model No. Remove requirement to remove two ovens from service
Afterburner	493461	466988		Modification	Change the number of ovens vented to the afterburner from 7 to 10 ovens
Lithographic heatset printing press	493465	401093	F68188	Admin Permit	Split permit unit into two separate permit units per District request
Lithographic heatset printing press	493466	401090	F68628	Change of condition	Remove condition requiring equipment to be removed from service
Lithographic heatset printing press	493467	401091	F68187	Change of condition	Remove condition requiring equipment to be removed from service.

Application 493460 was submitted to change the model No. for the dryer on the new press (Printing system 707) that was issued a permit to construct on August 7, 2007. There are no other changes to the dryer, the make, heat rating, type of burner used will remain the same. Further, the applicant is requesting to replace condition No. 10 requiring the removal of two lithographic printing systems (Printing systems 1 and 2) upon completion of construction of this printing system, with a condition that would not permit the operation of printing systems 1 and 2 when printing system No.707 is in operation.

Application no. 493461 was submitted as a modification to the afterburner. The afterburner is currently allowed to vent seven drying ovens. The applicant is requesting to change the total number of drying ovens to be exhausted by the afterburner to ten ovens.

The company has been operating a dual web printer and the associated dryer under Permit No. F68188 (A/N 401093). Due to incomplete information submitted with the application package, the dual web press was issued under one permit. After a field evaluation at the facility, a determination was made that each individual press within the dual web presses should be a separate permit unit since it is possible for them to operate independently of each other, fed by two separate webs and run through two separate dryers. A/N 493465 is submitted to split this line into two separate permit units and this

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application will be used to create the new permit unit. The splitting of the printing system will qualify as an administrative permit revision, since the permit discrepancy was due to District oversight. Given that there are no changes in operation, the permit conditions and requirements will remain the same.

Application Nos. 493466 and 493467 were submitted for the replacement of permit condition No. 9 requiring the applicant to remove printing press systems 1 and 2 once the new printing press system No. 707 is in operation, with a condition that would not permit the operation of printing systems 1 and 2 when printing system 707 is in operation.

This facility has recently been issued an Notice to Comply, NC D19261, on 8/22/08 to provide VOC and NOx daily emissions records, provide temperature records of the oxidizer and provide annual inspection of the thermal oxidizers for the calendar year 2007. The applicant provided the requested information and the NC was closed on 9/18/2008. A Notice of Violation, NOV# P53804, was issued to this facility on 9/17/08 for operating three heat set lithographic printing presses (P/O F68628, F68187 and a/n 466987) contrary to Title V permit conditions. Additionally they were operating an oven without an active permit (The model number of the oven did not match the model number on the permit). A second Notice of Violation was issued on 1/30/09 for continuing to operate the three heatset presses simultaneously and operating the oven whose description does not match the permit to construct (a/n 466987). Quebecor had submitted these applications to make the corrections to the permits in order to satisfy the Notice of violations. Issuing the permit will bring the facility into compliance with District Rules and Regulations.

Process Description:

The facility is a large lithographic printing business that prints various inserts, publications, magazines and books. The company is operating ten lithographic printing presses. The inks are all oil based which are heat set and the presses are all equipped with natural gas fired dryers. The drying ovens are vented to two regenerative thermal oxidizers (RTO). The thermal oxidizer is manifold to the existing system and will vent all the presses. The heatset inks have a retention factor of 20% so 80% of the VOC emissions from the inks will be vented from the dryers to the RTO. The equipment will operate 24 hrs/day, 7 days/week and 52 weeks/year.

The VOC collection efficiency from the ovens is expected to be 99.5% as stated in previous evaluations and source test for the press ovens. The VOC destruction efficiency is expected to be 99.0% (overall efficiency of 98.5%). The RTO will be maintained at a temperature of 1,550⁰F.

Emissions Calculations:

The facility currently operates under a facility wide limit for both NOx and VOC. The VOC limit is 7,800 lbs/month. The NOx limit is 667 lbs per month.

Presses No.1 (a/n 493466) and No.2 (a/n 493467), and press No. 707 (a/n 493460) will be conditioned such that they are not to be operate simultaneously. That is Presses No.1 &

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No.2 will not be operated while Press #707 is in operation. There will be no increase in the emissions with this change of condition. The emissions will remain the same.

Presses No.1, No.2 and No.707 Combustion emissions:

Operating Schedule: 24, 7, 52

Press No.1 & No.2 - 1.6 mmbtu/hr/(1050btu/cuft)=0.001524mmcuft/hr each

Press No.707 - 6.46 mmbtu/hr/(1050btu/cuft)=0.006152mmcuft/hr

	Contaminant	VOC	NOx	SOx	CO	PM10
Equipment	Emission Factor lb/mmft ³	7.0	38.5*	0.6	78.8	7.6
Press No.1	1.524E-03 mmcuft/hr	1.067E-02 lb/hr	5.87E-02	9.142E-04	1.201E-01	1.158E-02
Press No.2	1.524E-03 mmcuft/hr	1.067E-02 lb/hr	5.87E-02	9.142E-04	1.201E-01	1.158E-02
Press No. 707	6.152E-03 mmcuft/hr	4.317E-02 lb/hr	2.37E-01	3.691E-03	4.848E-01	4.676E-02

Press No.3 is to be split into two, Presses No.3A & No.3B. Application no. 493465 will cover press No.3B and the previous application no. 401093 will cover No.3A. The emissions will remain under press #3A as stated in the table below. There will be no change in emissions.

Presses No.3A and No.3B Combustion emissions:

Operating Schedule: 24, 7, 52

Press No.3A & No.3B - 3.2 mmbtu/hr/(1050btu/cuft)=0.003048mmcuft/hr each

	Contaminant	VOC	NOx	SOx	CO	pm10
Equipment	Emission Factor	7.0lb/mmcuft	38.5*	0.6	78.8	7.6
Press No.3A & 3B	3.048E-03 mmcuft/hr	2.133E-02 lb/hr	1.17E-01	1.83E-03	2.401E-01	2.316E-02

Application no. 493461 was submitted to keep presses No.1 & No.2 connected to the afterburner after Press No.707 was up and operational. There is no change in the heating capacity of the oxidizer so no change in emissions is expected. The following table illustrates the emissions from each application.

Thermal Oxidizer #1 Combustion emissions:

Operating Schedule: 24, 7, 52

Thermal Ox. No.1 & No.2 - 11.6 mmbtu/hr/(1050btu/cuft)=0.011047mmcuft/hr

	Contaminant	VOC	NOx	SOx	CO	PM10
Equipment	Emission	7.0lb/mmcuft	100*	0.6	35	7.6

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	Factor					
Thermal Ox. No.1 & No.2	1.1047E-02 mmcuft/hr	7.733E-02 lb/hr	1.1	6.629E-03	3.866E-01	8.396E-02

The average VOC emissions from the ten permitted presses are as follows:

$$(7800 \text{ lb/month}) / (30 \text{ day/month}) / (24 \text{ hrs/day}) / (10 \text{ presses}) = 1.083 \text{ lbs/hr}$$

Operating Schedule: 24hrs/day, 7days/week, 52weeks/yr

Application No.	Equipment	Hourly Controlled Emissions				
		VOC	NO _x	SO _x	CO	PM10
493466	Press #1	1.09	0.0587	0.001	0.120	0.012
493467	Press #2	1.09	0.0587	0.001	0.120	0.012
493460	Press # 707	1.12	0.237	0.004	0.485	0.047
401093	Press #3A	1.10	0.117	0.002	0.240	0.023
493465	Press #3B	1.10	0.117	0.002	0.240	0.023
493461	Thermal Ox		1.1	0.007	0.386	0.084

Evaluation & Rule Review

Rule 212 (c)(1): This section requires a public notice for all new or modified permit units that emit air contaminants located within 1,000 feet from the outer boundary of a school.
No school is located within 1,000 ft from the above site.

Rule 212 (c)(2): This section requires a public notice for all new or modified facilities that have on-site emission increases exceeding any of the daily maximums as specified by Rule 212(g).

The proposed project, changes to the permit descriptions and change in conditions, will not result in a facility wide emission increase. A Rule 212(c) (2) notice will not be triggered.

Rule 212(c)(3): This section requires a public notice for all new or modified permit unit with increases in emissions of toxic air contaminants listed in Table I of Rule 1401 resulting in MICR greater than 1E-6 per permit unit or greater than 10E-6 per facility or any increase in health risk.

The proposed project will not result in an emission increase of hazardous air pollutants. Public notice is not required under this section of the rule.

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Rule 212(g): This section requires a public notice for all new or modified sources that result in emission increases exceeding any of the daily maximums as specified by Rule 212(g).

The emissions from the proposed project will not represent an emission increase that will exceed the Maximum Daily Emissions limit as summarized below:

	Maximum Daily Emissions					
	<u>ROG</u>	<u>NO_x</u>	<u>PM₁₀</u>	<u>SO₂</u>	<u>CO</u>	<u>Pb</u>
Emission increase	<u>0</u>	0	0	0	0	0
MAX Limit (lb/day)	30	40	30	60	220	3
Compliance Status	Yes	Yes	Yes	Yes	Yes	Yes

A public notice is not required since there is no emission increase.

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

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

Rule 1130: (1) VOC Content of Graphic Arts Materials
No person shall apply any graphic arts material, including any VOC-containing materials added to the original graphic arts materials, which contains a total VOC in excess of the limits specified below:

GRAPHIC ARTS MATERIAL	VOC LIMIT	
	<u>(October 8, 1999)</u>	<u>Effective January 1, 2000</u>
Lithographic Ink	300	300

The VOC content of the Lithographic inks range from 336 to 372 gm/lt. The rule limit is 300 gm/lt unless they employ an approved air pollution control system. The facility will have two RTOs that will need to meet at least 75% overall control. Since BACT is employed compliance with this rule is expected.

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(2) VOC Content of Fountain Solution

Through December 31, 1999, no person shall apply in any graphic arts operation any fountain solution, including any VOC-containing materials added to the original fountain solution, which contains a total VOC in excess of 100 grams per liter of material. Effective January 1, 2000, the VOC content of fountain solution, including any VOC containing material added to the original fountain solution as applied, shall be:

- (A) no greater than 80 grams per liter of material, or
- (B) no greater than 100 grams per liter of material, if a refrigerated chiller is used.

The fountain solution will be mixed in a ratio of 10oz of concentrate to one gallon of water. This results in a VOC content of the Print Easy 4050 solution is 0.77 lbs VOC/gal. The resulting VOC content of the mixture is 6.7 gm VOC/lit which is less than both limits of this rule. (refrigerated aon non-refrigerated). Compliance with this rule is expected.

(3) Solvent Cleaning Operations; Storage and Disposal of VOC-containing Materials. Solvent cleaning of application equipment, parts, products, tools, machinery, equipment, general work areas, and the storage and disposal of VOC-containing materials used in cleaning operations shall be carried out pursuant to Rule 1171 - Solvent Cleaning Operations

Rule 1171: (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*	EFFECTIVE 1/1/2008
	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(D) Cleaning of Ink Application Equipment		
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components		
(II) Other Substrates	500 (4.2)	100 (0.83)
(B) Removable Press Components	25 (0.21)	

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The Roller wash/blanket wash and system wash used for this equipment has a VOC content of 0.8 lbs/gallon and 0.75 lbs/gal which will comply with the Rule 1171 requirements.

REG XIII: New Source Review.

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

- 1) **BACT**
BACT requirements are satisfied by the imposition of the 8.0 vol% limitation on the fountain solution and the requirement that the VOC composite vapor pressure of the blanket and roller washes do not exceed 6 mmHg. The fountain solution has a 0.6 vol% concentration. Further, the VOC emissions from the dryers are vented to an RTO meeting the BACT requirements.
- 2) **Modeling:**
There are no modeling requirements for VOC emissions. The following summarizes the potential NOx, CO or PM emissions. All emissions comply with the modeling provisions of this rule. Compliance is expected.

Equipment	Heat input	NOx Emissions lbs/hr	NOx Allowable lbs/hr	CO Emissions lbs/hr	CO Allowable lbs/hr	PM10 Emissions lbs/hr	PM10 Allowable lbs/hr
Press #1 & #2	1.6 mmbtu/hr	0.0587	0.31	0.12	17.1	0.012	1.9
		Pass		Pass		Pass	

- 3) **Emission Offsets:**
The change of conditions to prevent operation of presses No.1 and No.2 when printing press No.707 is operational, the splitting of the permit unit into two, presses No.3a & No.3b and the addition to the exhaust of the oxidizer all ten presses will not cause an emission increase. No emission increase is expected. Offsets are not required.
- 4) **Facility Compliance:**
The issuing of these permits will bring this facility into compliance with all District Rule and Regulations.
- 5) **Major Polluting Facilities:**
This facility is considered a major polluting facility but the changes to the facility will not constitute a major modification to a major polluting facility.

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

- 1) *(d)(1) MICR and Cancer Burden* - The cumulative increase in MICR which is the sum of the calculated MICR values for all toxic air contaminants emitted from the new, relocated or modified permit unit will not result in any of the following:

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(A) an increased MICR greater than one in one million (1.0×10^{-6}) at any receptor location, if the permit unit is constructed without T-BACT;

(B) an increased MICR greater than ten in one million (1.0×10^{-5}) at any receptor location, if the permit unit is constructed with T-BACT;

(C) a cancer burden greater than 0.5.

- 2) (d)(2) *Chronic Hazard Index* - The cumulative increase in total chronic HI for any target organ system due to total emissions from the new, relocated or modified permit unit will not exceed 1.0 at any receptor location.
- 3) (d)(3) *Acute Hazard Index* - The cumulative increase in total acute HI for any target organ system due to total emissions from the new, relocated or modified permit unit will not exceed 1.0 at any receptor location.

The proposed project will not result in an emission increase of hazardous air pollutants. Compliance with this rule is expected.

REGULATION XXX:

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

Rule 3000(b)(12)(vi) defines a “minor permit revision” as any Title V permit revision that does not result in an increase in emissions of a pollutant subject to Regulation XIII – New Source Review (non-RECLAIM pollutants) or a hazardous air pollutant (HAP).

The proposed project is not expected to result in an increase in emissions of a pollutant subject to Regulation XIII – New Source Review (non-RECLAIM pollutants) or a hazardous air pollutant (HAP), and therefore is considered as a “minor permit revision” pursuant to Rule 3000(b)(12)(A)(vi).

This proposed project is the 2nd permit revision to the Title V renewal permit issued to this facility on August 01, 2007. The following table summarizes the permit revisions since the Title V renewal permit was issued :

Revision	HAP	VOC	NO _x	PM ₁₀	SO _x	CO
1 st Permit Revision: Replacement of printing presses and addition of 2 nd RTO.	0	0	0	2	0	5

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING DIVISION

APPLICATION PROCESSING AND CALCULATIONS

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2 nd Permit Revision; a/n 493466, 493467 & 493460 to change condition to prohibit operation of press No.1 & No.2 when press No.707 is operational. Split press 3 into two permit units. Add press No.1 & No.2 to oxidizer exhaust	0	0	0	0	0	0
Cumulative Total	0	0	0	2	0	5
Maximum Daily	30	30	40	30	60	220

RECOMMENDATION

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