

<b>Engineer Name</b>	Kai Chan
<b>Engineer Initials</b>	KC
<b>Engineer's Regional Manager</b>	Rupi Gill
<b>Facility Name</b>	Worldcolor (USA), LLC
<b>Facility #</b>	N-1646
<b>ATC#'s being incorporated</b> (ex. Authorities to Construct C-1234-1-2 and '-2-3)	N-1646-37-1
<b>Preliminary Notice Date</b>	May 25, 2010
<b>Project #</b>	N-1093771
<b>Modification</b> (complete sentences with period)	Install a new heatset offset lithographic printing press #522 served by a facility shared 5.728 MMBtu/hr Megtec Cleanswitch regenerative thermal oxidizer
<b>Contact Receiving Final</b>	Mr. Roger Ashlock
<b>Mailing Address</b>	2201 Cooper Avenue Merced, CA 95348
<b>Did EPA have comments/objections?</b>	No
<b>Prorate?</b>	\$



JUL 14 2010

Roger Ashlock  
Worldcolor (USA), LLC  
2201 Cooper Avenue  
Merced, CA 95348

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # N-1646  
Project # N-1093771**

Dear Mr. Ashlock:

The Air Pollution Control Officer has modified the Title V permit for Worldcolor (USA), LLC by incorporating N-1646-37-1. Install a new heatset offset lithographic printing press #522 served by a facility shared 5.728 MMBtu/hr Megtec Cleanswitch regenerative thermal oxidizer

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on May 25, 2010. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

David Warner  
Director of Permit Services

DW:KC/cm

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-8081

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 861-392-5585



JUL 14 2010

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # N-1646  
Project # N-1093771**

Dear Mr. Rios:

The Air Pollution Control Officer has modified the Title V permit for Worldcolor (USA), LLC by incorporating N-1646-37-1. Install a new heatset offset lithographic printing press #522 served by a facility shared 5.728 MMBtu/hr Megtec Cleanswitch regenerative thermal oxidizer

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Sincerely,

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-1646-37-2

**EXPIRATION DATE:** 09/30/2008

**EQUIPMENT DESCRIPTION:**

GRAPHIC ARTS PRINTING OPERATION CONSISTING OF ONE MAN ROLAND MODEL ROTOMAN S 64" WIDE 8-COLOR HEATSET OFFSET LITHOGRAPHIC PRINTING PRESS (PRESS #522) WITH ONE 9.4 MMBTU/HR NATURAL GAS MEGTEC MODEL DD III-135-2080 DRYING OVEN #1 AND ONE 9.0 MMBTU/HR NATURAL GAS FIRED MODEL DD III-135-2080 DRYING OVEN #2 EACH VENTED TO THE SHARED 5.728 MMBTU/HR MEGTEC CLEANSWITCH MODEL CS-300-95 NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER.

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The drying ovens and regenerative thermal oxidizer shall be fired exclusively on natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the drying ovens shall be installed, utilized and maintained. [District Rules 2201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the regenerative thermal oxidizer shall be installed, utilized and maintained. [District Rules 2201] Federally Enforceable Through Title V Permit
5. The drying ovens serving the heatset offset printing press shall be maintained under negative pressure and shall be vented through the regenerative thermal oxidizer at all times except during periods of start-up while the dryers are being air purged. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. The collection system for the dryer exhausts and for all fugitive VOC emissions shall have a minimum capture efficiency of 90%. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The regenerative thermal oxidizer shall be operated with a minimum VOC destruction efficiency of 98%. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The regenerative thermal oxidizer shall be operated at a minimum temp. of 1400 deg. F. The incinerator shall be preheated to 1400 deg. F prior to the start-up of the heatset offset printing operation. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The regenerative thermal oxidizer shall be equipped with an operational continuous temperature monitoring and recording instrument. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The VOC content of the materials shall not exceed the following: inks less than 45% VOC by weight (less water and exempt compounds) and fountain solutions less than 15% by volume. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

12. The VOC content of organic solvents used to perform surface preparation or cleanup shall not exceed the VOC content limits specified in Table 7 of Rule 4607 (Graphic Arts and Paper, Film, Foil, and Fabric Coatings - 12/18/08 version). [District Rule 4607] Federally Enforceable Through Title V Permit
13. For a permittee using any solvent containing more than 25 g/L (0.21 lb/gal) of VOC for organic solvent cleaning, cleaning activities shall be by one of the following methods: (1) wipe cleaning; or (2) application of solvent from hand-held spray bottles from which solvents are dispensed without a propellant-induced force; or (3) non-atomized solvent flow method in which the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container; or (4) solvent flushing method in which the cleaning solvent is discharged into a container that is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping. [District Rule 4607] Federally Enforceable Through Title V Permit
14. Solvents shall not be atomized into the open air unless it is vented to a VOC control device. This provision shall not apply to operations where roller or blanket wash is applied automatically and the cleaning of the nozzle tips of automated spray equipment systems, except for robotic systems, and cleaning with nonpropellant-induced, hand-held spray bottles or containers which solvents are dispensed without a propellant-induced force. [District Rule 4607] Federally Enforceable Through Title V Permit
15. The permittee shall not use VOC-containing material to clean spray equipment used for the application of coatings, adhesives, or ink, unless an enclosed system or equipment that is proven to be equally effective at controlling emissions is used for cleaning. If an enclosed system is used, it must totally enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing, draining procedures, and it must be used according to manufacturer's recommendations and must be closed when not in use. [District Rule 4607] Federally Enforceable Through Title V Permit
16. Permittee shall store or dispose of fresh or spent solvents, waste solvent cleaning materials, coatings, adhesives, catalysts, thinners, and inks in closed, non-absorbent, non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the container is empty. [District Rule 4607] Federally Enforceable Through Title V Permit
17. The permittee shall properly use and operate all graphic arts printing technologies as directed and/or specified by the manufacturer of the printer or graphic arts material. [District Rule 4607] Federally Enforceable Through Title V Permit
18. VOC emissions from the printing inks and solvents shall not exceed 50.0 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
19. NO<sub>x</sub> emissions from the drying ovens shall not exceed 4.3 ppmvd @ 19% O<sub>2</sub> (referenced as NO<sub>2</sub>) or 0.0492 lb-NO<sub>x</sub>/MMBtu. [District Rules 2201 & 4309] Federally Enforceable Through Title V Permit
20. CO emissions from the drying ovens shall not exceed 25.0 ppmvd @ 19% O<sub>2</sub> or 0.174 lb-CO/MMBtu. [District Rules 2201 & 4309] Federally Enforceable Through Title V Permit
21. PM<sub>10</sub> emissions from the drying ovens shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. SO<sub>x</sub> emissions from the drying ovens shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
23. VOC emission from the drying ovens shall not exceed 0.0055 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
24. NO<sub>x</sub> emissions from the regenerative thermal oxidizer shall not exceed 4.3 ppmvd @ 19% O<sub>2</sub> (referenced as NO<sub>2</sub>) or 0.0492 lb-NO<sub>x</sub>/MMBtu. [District Rules 2201 & 4309] Federally Enforceable Through Title V Permit
25. CO emissions from the regenerative thermal oxidizer shall not exceed 25.0 ppmvd @ 19% O<sub>2</sub> or 0.174 lb-CO/MMBtu. [District Rules 2201 & 4309] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. PM10 emissions from the regenerative thermal oxidizer shall not exceed 0.01 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
27. SOx emissions from the regenerative thermal oxidizer shall not exceed 0.00285 lbs/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
28. VOC emissions from the regenerative thermal oxidizer shall not exceed 0.02 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The total quantity of natural gas used in the drying ovens under this permit unit shall not exceed 137,000 cubic feet in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The total quantity of natural gas used in the drying ovens under this permit unit shall not exceed 50.0 million cubic feet in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The total quantity of natural gas used in the regenerative thermal oxidizer shall not exceed 25,000 million cubic feet in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing to demonstrate compliance with the VOC destruction efficiency of the regenerative thermal oxidizer shall be conducted on an annual basis. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Source testing to determine the destruction efficiency of the regenerative thermal oxidizer shall be conducted using EPA Methods 2, 2A, or 2D for measuring flow rates and EPA Methods 25, 25A, or 25C for measuring total gaseous organic concentrations at the inlet and outlet of the control device. [District Rule 4607] Federally Enforceable Through Title V Permit
34. Source testing to measure NOx and CO emissions from the drying ovens shall be conducted at the exhaust of the associated regenerative thermal oxidizer at least once every 24 months. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
35. All test results for NOx and CO shall be reported in ppmv @ 19% O2 (or no correction if measured above 19% O2), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit
36. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] Federally Enforceable Through Title V Permit
37. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
38. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
39. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
40. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4309] Federally Enforceable Through Title V Permit
41. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
42. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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43. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4309] Federally Enforceable Through Title V Permit
44. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
45. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4309] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4309] Federally Enforceable Through Title V Permit
47. Permittee shall maintain a current file of coatings, inks, adhesives, fountain solutions, wash primers, and solvents in use and in storage. The file shall include material safety data sheet (MSDS) or product data sheet showing the material name, manufacturer's name, VOC content as applied, mixing instruction, and density. [District Rule 4607] Federally Enforceable Through Title V Permit
48. The permittee shall record on a daily basis, the type and amount of each coating, adhesive, fountain solution, wash primer, and solvent used. [District Rule 2201 & 4607] Federally Enforceable Through Title V Permit
49. The permittee shall record on a monthly basis, the type and amount of all inks used and their VOC content and densities, using one of the methods listed in Rule 4607, Section 6.1.2.1 (12/18/08 version of Rule 4607). [District Rule 4607] Federally Enforceable Through Title V Permit
50. The permittee shall record on a monthly basis, the type and amount of each ink, coating, adhesive, wash primer, and solvent used. [District Rule 4607] Federally Enforceable Through Title V Permit
51. The permittee shall record on a monthly basis, the type, amount and percent VOC by volume of each fountain solution used. [District Rule 4607] Federally Enforceable Through Title V Permit
52. The permittee shall maintain daily records of the following: (1). Quantity of VOC emitted (in pounds) from this printing press; (2). Cumulative quantity of VOC emitted (in pounds) from all graphic arts printing operations at the facility; (3) Quantity of natural gas used (in cubic feet) by each drying oven and each thermal oxidizer at the facility; (4) Operational temperature of each thermal oxidizer. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
53. The permittee shall maintain a record of the cumulative annual quantity of natural gas used (in cubic feet) by the drying ovens under this permit. The cumulative total quantity of natural gas used shall be updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
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54. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4309] Federally Enforceable Through Title V Permit

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